CU AMIGA

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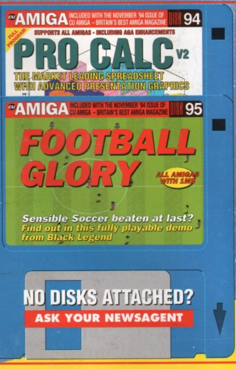
PLUS: VIDEOTRACKER AGA v2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THE BEST SOCCER GAME EVER?

FOOTBALL GLORY: REVIEW AND DEMO

AMIGA INTERNATIONAL

WHAT'S HAPPENING? WHEN? HOW? PAGE 22

PLUS TOP GAMES REVIEWED: GUARDIAN, DREAMWEB ROBINSON'S REQUIEM, SUPER STARDUS AND MUCH MUCH MORE.

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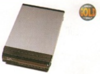

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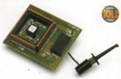

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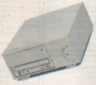

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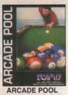

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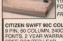

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2: Please remember that we have to write and produce your favourite magazine every month, so try to keep your correspondence short and to the point. Although we'd love to, we simply cannot reply personally to the hundreds of calls, letters, and faxes we get. Answers have to be through the pages of the magazine only.

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We get hundreds of new PD programs every week, but we're still hungry for more. If you've written a PD program that you're proud of send it to the PD ZONE, CU AMIGA, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU

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CU AMIGA runs massive competitions almost every issue. To enter one of these simply scribble your name and address on the back of postcard, along with the answers and send them to us at the usual address. Competition entries are only accepted by post. One entry per person please and the editor's decision is final. Other rules may be printed from time to time.

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If you have a faulty cover disk then write or return your disk to our 3.5 inch people: CU AMIGA COVER DISK RETURNS, DISKXPRESS, Unit 3, Old Coalyard Farm, NorthLeach, Gloucestershire GL54 3EP.

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PRINTED IN THE UNITED KINGDOM
ABC: 112,780 JULY-DECEMBER 1993

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GET SERIOUS

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You'd be amazed at what you can do with your Amiga! We quizzed our panel of experts for their selection of top tips, gleaned from years of experience with the Amiga. It's all here: memory savers, shortcuts, care of your Amiga, trouble-shooting, hidden features, and some wacked-out ideas for alternative uses for your Amiga. Brilliant!

88 IN THE HOT SEAT: DPAINT AUTHORS INTERVIEW

We gave you a sneak look at the new *DPaint* release on last month's coverdisk. This month we bring you another insight into the latest update of the Amiga's favourite software package, in an interview with the authors of *Deluxe Paint V*.

PRODUCTIVITY REVIEWS PRODUCTIVITY REVIEWS PRODUCTIVITY REVIEWS

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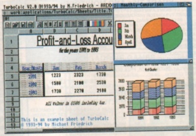
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Monthly-Comparison
A1
A
B
C
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Jan
Feb
March
April
1991
1992
1993

Profit-and-Loss Accou
for the years 1991 to 1993

Year/Month	Jan	Feb	March
1991	1223	2323	1730
1992	1500	2100	2530
1993	1730	2270	2100

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This is an example sheet of TurboCalc
© 1993-94 by Michael Friedrich

Get your house in order with *TurboCalc*. Yes you can afford that winter holiday if you budget correctly.

The Samsung printer – big and beautiful or bulky and bad? Find out on page 102.

SCREEN SCENE

GAME REVIEWS GAME REVIEWS GAME REVIEWS GAME REVIEWS GAME REVIEWS

Cornucopia means 'horn of plenty' apparently. Once again, we've got another plentiful horn of games for you this month, including the likes of the stunning *Super Stardust*, a possible *Sensi Soccer*-beater in *Football Glory* (see coverdisks for a playable demo), the engrossing *Dreamweb*, and CD32 versions of *Cannon Fodder* and *Super Frog*.

38 AMAZON QUEEN
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64 ON THE BALL
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66 FOOTBALL GLORY
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The violence debate continues, as Robert Whelan (BSC Hons) takes an opposing view to that of our own André Digard.

COVERDISKS

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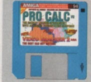

Pro Calc is here, in all it's fully functioning glory. Yes we've go the complete package for you. And we've managed to squeeze on the brilliant new *VideoTracker 2 AGA* too. Take your Amiga to its limits and beyond!

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AMIGA
95
FOOTBALL GLORY

Football Glory is tipped to knock *Sensible Soccer* off its perch. Decide for yourself with this excellent fully playable one or two player demo. It's a perfect taster of one of the best football games around. Bicycle kicks, arguments with the ref and flying tackles abound.

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AMIGA
94
PRO CALC V2
VIDEO TRACKER 2 AGA
THE BEST HAS GOT BETTER!

COVERDISK 94

PROFESSIONAL CALC

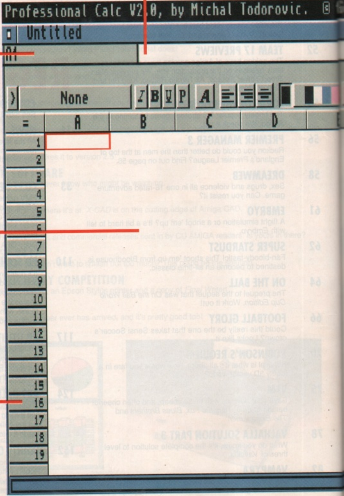
GoldDisk Professional Calc was the best spreadsheet available for the Amiga, and now you have free it on this month's coverdisk.

There was a time when spreadsheets did nothing more than perform simple calculations on rows and rows of numbers. Nowdays, however, they are powerful computing tools, spanning several different types of applications. *Professional Calc* for instance can not only perform hugely complex, and otherwise time-consuming calculations in the blink of an eye, but can also create stunning three dimensional graphs, and act as a mathematical data base!

The program itself is very simple to use, you'll be able to learn most of it simply by playing about with the various facilities. But to make things even simpler we've included two tutorials on the disk to help! Over the next three months we'll be looking at its features in further detail, but in the meantime check out the diagram below which details the major parts of the program and should get you started up.

CELL CONTENTS BOX

Move the mouse pointer to cell D6, then type in 300 and press return. As you type, the numbers appear here and if, for example, you now move the mouse pointer to cell A5 you'll see what you originally typed in '=sum(A1:A4)' appear here. This shows you what you are currently typing or the contents of a cell.


Professional Calc V2.0, by Michal Todorovic.

Untitled

CURRENT CELL INDICATOR

As you move the cursor around the spreadsheet cells (either using the mouse pointer or the cursor keys) this box will show the current cell coordinates.

MAIN CELLS

In here you can enter the numbers and formulas (a term meaning the mathematical calculation to be performed) that actually make up the spreadsheet. Cells are referred to by the letters running across the top of the page and the numbers running down the left-hand side, so the cell in the top left hand corner is called A1. Move the mouse pointer over cell A1 and type in '100' then press return. Each time you press return the cursor will move down to the cell below it. Now enter 200, 300 and 400 in the same way. In cell A5 type in the following '=sum(a1:a4)' and press return. This will calculate the total resultant in adding 100, 200, 300 and 400 together and then show the result. You can enter text into cells in just the same way.

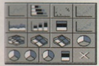
VERTICAL SIZERS

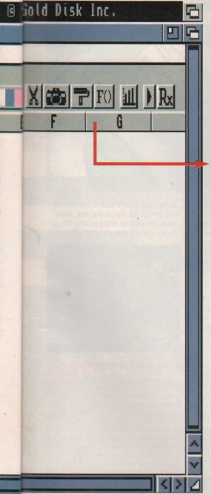
The opposite of Column Sizers, dragging the lines between the numbers allows you to increase the height of rows.

TOOLBAR

These icons allow you to carry out common operations quickly by simply clicking on the required icon. From left these are: italics, bold, underline and plain text, font selection, and justification (left, centre, and right). Moving the cursor over text on the spreadsheet and clicking on one of these will change the text attributes accordingly. For example, move the cursor to cell D1 and type in 'PRO CALC IS GREAT', press return, then move the cursor back to cell D1 and then try clicking on these buttons to see the effects. The other buttons are, in order:

- **Change Pen:** changes the colour of the current cell contents.
- **Cut Tool:** cuts currently highlighted cell(s) and temporarily saves their contents.
- **Copy Tool:** the same as cut, but this leaves the cell contents on the spreadsheet.
- **Paste Tool:** pastes back text that was cut or copied earlier.
- **Fast Function:** will be covered in more detail next month.
- **Chart Icon:** move the mouse pointer over cell A1 and holding the mouse button down, move it down to cell A5 (as you do so a red border should appear) then click on this button. You'll then be presented with a selection of small graph types, Click on one of them and select continue on the next requester and a graph will be created. The last two buttons allow you to play back previously recorded sequences of instructions and to communicate with other programs via Amiga *ARexx*. Both of these will be covered in a future issue.





COLUMN SIZERS

Clicking on the lines between columns and dragging them allows you to increase the width of individual columns.

FORMULAS

As already mentioned, most cells will contain numbers while some will contain descriptive text or formulas. But what can you do with these numbers? Well *ProCalc* has a wealth of financial, statistical, and trigonometric functions that can process these numbers, in fact there are over 130 functions just waiting to be used. Below are many of the more common ones.

For the following items below 'List' means a range of cells specified by separating the start and end cells with a colon – ie A1:A5. 'Value' is a single cell (ie A1) or numeric value).

TIME:

DATE(month,day,year)
Returns the number of days between January 1st 1978 and the date indicated.

DATEVALUE("Date")
Returns the number of days since January 1st 1978 and the date given between the quotes, the format of this can be either "June-08-94" or "08-June-94".

HOUR()
Returns the number of hours since midnight to the time when this was last calculated.

MATHS

SUM(list)
Returns the total of all values in the List.

MOD(Value,Divisor)
Returns the remainder of Value divided by Divisor.

INTEGER(Value)
Truncates the fractional part of Value, returning just the integer.

FINANCIAL

CTERM(Interest,Future Value,Present Value)
Calculates the number of periods required for the value given by Present Value to grow into Future Value at a fixed interest rate of Interest and compounding each period.

BOOLEAN

These can be combined with the IF function to provide a decision making capability in your spreadsheets.

AND(List)
Returns TRUE (1) if all items in the List are True (greater than 0) or FALSE (0) if otherwise.

FALSE()
Returns zero (0).

NOT(Value)
Returns TRUE if Value is FALSE, and returns FALSE if the Value is true.

OR(List)
Returns TRUE if any item in the List is TRUE, or FALSE if otherwise.

TRUE()
Returns one (1).

XOR(List)
Returns TRUE or FALSE depending on the cells in List. In the List is all Zeros or Ones return FALSE, if a mixture of zeros and ones return TRUE.

That's it for this month's quickstart guide, above you'll find a panel listing various formulas you can try out. If you want to save your spreadsheets move the mouse pointer up to the top of the screen and press the right mouse button. A menu will now appear under which you'll find options to save and load spreadsheets.

Next month we'll take a look at some of the menu functions that allow you to tailor the look of the spreadsheet and how it acts.

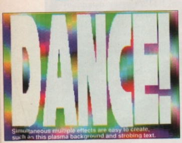
A1200 and A4000 only

AMIGA
94
PRO CALC V2
PLUS!
NEW
VIDEO TRACKER 2 AGA

COVERDISK 94

VideoTracker 2.0 AGA is the best demo creator available for A1200 and A4000 users. And we've got the fully-functioning, complete program on this issue's disk. For anyone who has used version 1 this is going to be a treat.

VIDEOTRACKER 2 AGA



Simultaneous multiple effects are easy to create, such as this plasma background and strobing text.

Wayhey! Tunnels and strobes, animations and plasma and loads of other yummy stuff! It's all on this issue's Coverdisk 94. *Videotracker 2 AGA* is the missing link between your imagination and reality. It's also the most powerful and flexible demo and video creator ever devised, allowing you to make free-standing state of the art demos, without all the mind-bendingly tedious programming associated with some other packages.

LOAD A DEMO NOW!

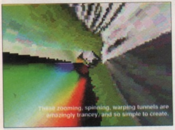
Load up one of the demos on the disk to get an idea of what can be done. Hold down the right mouse button and select LOAD VIDEO from the project menu. Double click on any of the four names that appear in the window. Once the video has loaded, click the Play button. Press the right mouse button to exit back to the editor section. Here's a brief guide to the demos on the disk.

TONE'S VIDEO: a small demo created by Tony Horgan to show off *Videotracker*'s speed. The soundtrack is an *OctaMED* Module.

COPPER MAGNIFY 3 AGA: a simple demonstration of the excellent tunnel and zoom effect.

JOYSTICK: A demonstration of the sound-to-light feature of *Videotracker*, which responds to joystick movements. See the on-disk instructions for more information. We'll cover this in detail in a future issue.

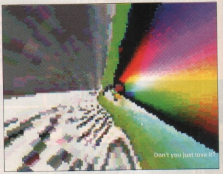
SIMPLE VIDEO: Shows a few more of the effects available in *Videotracker 2*.


These zooming, spinning, warping tunnels are amazingly trancey, and so simple to create.

GENERAL USE

VideoTracker uses an *OctaMED* or *Protracker* module as the backbone of all its demos and videos. Various visual effects, pictures and animations are triggered by the samples in the music module. For example, the bass drum could trigger one effect, while the snare drum triggered something completely different. The effect for each sample can be different for each song position. You can even assign a series of effects to sample, or combine a few effects simultaneously.

Every sample has a priority value for each song position. If this is set to zero, then it does nothing. Otherwise, it triggers the effects or routines specified by the First Effect and Last Effect sliders. These are different for each sample. Samples with higher priorities will override lower priorities. Many effects need data files in order to work. These need to be loaded into the slots preceding the effect. For example, in order for the Wave effect to work, there must be a picture or a brush already on the screen. Most of them also have variations that can be set by changing the Routine Mode value. Some may only have one or two variations – others, such as the plasma, can have up to 65532 variations!

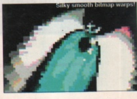

Don't you just love it?

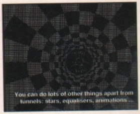
FABBY FEATURES

VideoTracker 2 AGA supports all of the following wonderfully fabby features: Rotational zooms, tunnels, plasma, starfields, equalisers, strobes, palette fades, picture wipes, multiple effects, text scrolling, vectors, IFF pictures, IFF brushes, IFF animations, genlocks, and loads more!

New features in Version 2.0 include the picture wipe routine, the Copper Magnify 3 AGA routine, bugfixes for A4000 compatibility, improved used of Fast RAM, a brilliant new sound-to-video feature that reacts to music in realtime via the joystick port, and general improvements all-round.

We don't have room in this issue of the magazine to give a full tutorial, so for now, take a look at the demos and instruction file on the disk. Next issue will see the first part of a full, in-depth *VideoTracker* tutorial.


Silky smooth bitmap warps!


You can do lots of other things apart from tunnels: stars, equalisers, animations ...

ON-DISK INSTRUCTIONS

Videotracker 2 AGA has an excellent instruction document on the disk – but the method for displaying it is a little more complicated than normal. Double click the *VT* disk icon, then double click the *VideoTracker* drawer icon. Now make sure that the *VideoTracker* window is active (it should have a blue border), and select Show All Files from the Window menu. Use the scroll bar at the bottom of the window to find the icon marked VideoTracker_Doc. Double click this icon, and change the text in the box that appears so that it reads PPMORE VideoTracker_Doc and press return. You can now read the instructions.

Hey, yeah ... like ... wow man, you know?

PROBLEM PAGE

If you have a problem getting *VideoTracker* to do what you want, and you're sure you've read all the instructions carefully, then maybe we can help. We'll be running a special *VideoTracker* Q+A feature in a forthcoming issue, with your problems solved by Peter van Campen, the programmer and designer of *VideoTracker*. Put your problem in writing (stating which version of *VideoTracker* you are using, and on exactly which Amiga) and send it to: VideoTracker Q+A, CU AMIGA, 30-32 Farringdon Lane, London EC1R 3AU.

OVERLORD
Arromanches
(Port Winston)
6 JUN 44
Gold Beach
6 JUN 44
Juno Beach
Ver-Plage
Courseulles
Villers-Boc
Brit

D-DAY, The Allies' daring push against the Nazi invasion, the largest manned landing in history, a day for liberty, a day for freedom. Yet D-Day would never have happened had Germany's air, land and sea-power not been diminished.

It is your job to succeed in destroying the German forces occupying Northern France, in Operation OVERLORD the air campaign leading up to D-Day. Overlord gives you the opportunity to fly the Typhoon Ib, the Mustang III or the Spitfire IX. The game features the revolutionary INSIDE COMBAT LOCK system, the cinematic VIEW MATRIX and most realistic graphical portrayal of aircraft and gameworld, in any historical flight simulation to date.

ROWAN

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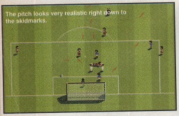
Virgin

AMIGA
INCLUDED WITH THE NOVEMBER '94 ISSUE OF CU AMIGA – BRITAIN'S BEST AMIGA MAGAZINE
95
FOOTBALL GLORY
Sensible Soccer beaten at last?
Find out in this fully playable demo from Black Legend

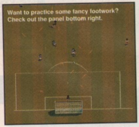
COVERDISK 95

Could this be the greatest football game ever. We certainly think so, and doubtless so will you when you try this fully playable demo.

FOOTBALL GLORY


The pitch looks very realistic right down to the skidmarks.

Croteam have been bashing away on this one for quite a while, and now at last they are ready to show the world what they are made of. Not only that, but they have also decided to give CU AMIGA readers a sneak preview of this fantastic football game by furnishing us with a completely playable demo of the game. You can play one or two player, with no time limit at all. The only cut off point is when a goal is scored, at which point the game goes back to the main menu.


Want to practice some fancy footwork? Check out the panel bottom right.

THE MENU?

The main menu also lets you watch one of the ten complete demonstration games on the disk. These are recorded matches, as played by the Croatians themselves, that show off every aspect of the game.

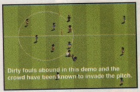
If you want to see everything from extremely violent fouls, bicycle kicks, dancing goalscorers, stretchers and arguments with the ref, then it's well worth watching these games. To see them, highlight the demo option on the main screen, and then push up or down on the joystick to highlight the game you want to watch (the number in the middle of the icon will change) and then press the fire button to load the demo.

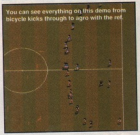
PLAYER MODES

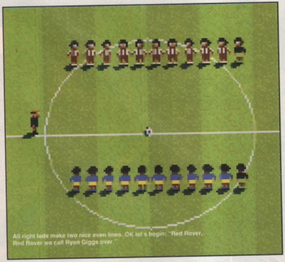
To enter into either one or two player mode, just select the appropriate mode, press fire and you're away. If playing in one player mode, you will be kicking off. In two player mode, the player in port 2 kicks off.

NOTE: There are two versions of the game on our coverdisk - AGA and Non-AGA. In the non-AGA version, you won't get to see the replay video window that appears whenever something of interest happens. This is not included simply because it wasn't ready in time for our demo, and will be available when the game is released this month.

For the first few games, you won't be able to beat the computer, but once you've spent a little time in two player mode practicing all the game moves (see panel), you'll really see what makes this such a great game. For more, read this month's exclusive review. CU


Dirty fouls abound in this demo and the crowd have been known to invade the pitch.


You can see everything on this demo from bicycle kicks through to agro with the ref.


All right lads make two nice even lines. OK let's begin: "Red Rover, Red Rover we call Ryan Giggs over."

THE GLORY MOVES

Football Glory features a hell of a lot of moves for one football game, and it will take a little while to learn all of them. For those of you who really want to take advantage of the amazing control system, here is a list of all the game moves:

PLAYER IN POSSESSION OF BALL

Short fire:	Passing ball or low kick
Long fire:	Long Kick
Fire and delayed direction:	Aftertouch
Fire and delayed backward:	High ball
Fire and quick backward:	Heel pass
Fire and quick forward and delayed direction:	Dribbling pass
Short fire and delayed fire:	Double pass
Quick double direction:	Power attack
Quick double direction:	Jump sliding tackles

PLAYER WITHOUT BALL

Fire and quick direction: (While ball is on the ground)	Sliding tackle
Fire and quick direction: (While ball is in the air)	Header
Fire and forward and delayed direction: (While ball is in the air)	Bicycle Kick
Fire and forward and delayed direction: (While ball is on the pitch)	Volley Kick

GOALKEEPER

Short fire:	Throw to nearest player
Long fire:	Long throw
Pressed fire and forward and delayed fire:	Long Kick

PREMIER MANAGER 3
This game is not a matter of life & death...
...it's much more important than that...
PREMIER MULTI-EDIT SYSTEM

Premier Manager 3 is the definitive football management game, and the climax to the most successful management simulation series in football history.

A whole range of exciting **new features** have been added to the immensely popular Premier Manager interface, which now includes:
● The European transfer market. ● New match display feature and user definable tactics. ● All the latest up-to-date squad listings. ● All the key European and English competitions. ● Three modes of in-match animation to help in game decision making. ● New 'Player Loan' facility. ● Assistant manager appointment. ● Direct instructions to squad members. ● Up to four independent scouts. ● Squad strengthening loans. ● Full graphic ground improvements. ● Comprehensive match reports. ● Detailed results and player/manager information service. ● Manager of the month award. ● Mid-season dismissal.

Premier Manager 3 is the only game exclusively compatible with the new Premier Multi-Edit System™ the complete information editor ***AVAILABLE SOON***

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Gremlin Interactive Limited, Carver House, 2-4 Carver Street, Sheffield S1 4FS, England.

Available on: ● Amiga 1200, 500/600 ● PC 3.5" disk ● PC CD-ROM

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Playtime SOFTWARE

ANCO

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You've watched the TV programme but can you play the computer game?

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Live out your football fantasies then turn them into reality.

Settle soccer arguments instantly - Fantasy Manager will give you clear, objective and measurable ratings of your managerial judgements.

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Up to 15 players at a time can battle it out to sort the managerial maestros from the total turnips.

Always thought you could beat the experts? Now you can prove it. Will your £25 million build a dream team or will you only manage a nightmare?

AVAILABLE FOR

IBM PC . PC CD ROM
CBM AMIGA . CD32

ALL VERSIONS £29.99

WARNING

THE UNIQUE 15 PLAYER OPTION CAN TURN YOUR FRONT ROOM INTO A FOOTBALL TERRACE

© 1994 Playtime Software Published by Anco Software Ltd, Unit 7, Millside Industrial Estate, Lawson Road, Dartford, Kent DA1 5BH Tel: 0322 292518 Fax: 0322 293422

HOW TO LOAD YOUR CU AMIGA COVERDISKS

AMIGA
INCLUDED WITH THE NOVEMBER '94 ISSUE OF CU AMIGA – BRITAIN'S BEST AMIGA MAGAZINE
DISK 94
SUPPORTS ALL AMIGAS - INCLUDING AGA ENHANCEMENTS
PRO CALC V2
THE MARKET LEADING SPREADSHEET WITH ADVANCED PRESENTATION GRAPHICS
PLUS!
ALL AMIGAS WITH 1MB
NEW
VIDEO TRACKER 2 AGA
THE BEST HAS GOT BETTER!

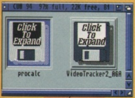
AMIGA
INCLUDED WITH THE NOVEMBER '94 ISSUE OF CU AMIGA – BRITAIN'S BEST AMIGA MAGAZINE
DISK 95
FOOTBALL GLORY
ALL AMIGAS WITH 1MB
Sensible Soccer beaten at last?
Find out in this fully playable demo from Black Legend

HOW TO LOAD COVERDISK 94

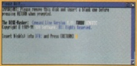
WRITE PROTECT YOUR COVERDISK!

EXPANDING THE DISKS
ProCalc and *VideoTracker 2 AGA* have been compressed in order to fit them both on the disk. You will need two spare disks, onto which the programs will be expanded. These need not be formatted. However, any data they contain will be lost. Follow these steps to expand both disks.

1. Insert Disk 94 into the internal floppy drive and reset the Amiga.The disk will boot up to a Workbench screen.


CUN 94 97% full, 22K free, 81
Click To Expand
procalc
Click To Expand
VideoTracker2_AGA

2. Double click on the CU# 94 disk icon.
3. Double click on the *ProCalc* icon.
4. Wait for the computer to ask you to insert a disk into df0. Then replace the coverdisk with one of your spare disks. The spare disk must be write enabled (with the tab in the closed position).



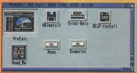
```
Please Wait...
IMPORTANT: Please remove this disk and insert a blank one before
pressing RETURN when prompted.

The DISK-Masher: Command Line Version [illegible] TURBO GENETIC
Copyright © 1989-91 SDS Software. All Rights Reserved.

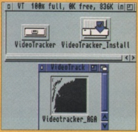
Insert Disk(s) into DF0: and Press [RETURN]
```

5. Press Return.
6. Ignore any comments about the bootblock.
7. Replace the CU #94 coverdisk when asked to do so.
8. Double click the *VideoTracker2_AGA* icon.
9. Replace the coverdisk with your second spare disk when asked to do so.
10. Press Return.
11. Replace the CU #94 coverdisk at the prompt.

LOADING PROCALC
ProCalc does not autoboot. To use it, you must first boot from your Workbench disk or hard drive. Hard disk installation instructions are


ProCalc 76% full, 202K free, 635K in use
ProCalc
HDInstall
Print-Help
HELP-Install
Read_Me
Rexx
Examples

included on the disk – double click the HELP-Install icon. To load the main *ProCalc* program, double click the *ProCalc* icon from the *ProCalc* disk window.


VT 100% full, 0K free, 836K in use
VideoTracker
VideoTracker_Install
VideoTrack
Videotracker_AGA

LOADING VIDEOTRACKER 2 AGA
The *VideoTracker 2 AGA* disk does autoboot. Put the disk in the internal floppy drive and reset the Amiga. Double click the *VT* disk icon, then double click the *VideoTracker* drawer icon. Double click the *Video Tracker _AGA* icon to load the program. To install the program to your hard drive, double click the *VideoTracker* install icon. Add the following line to your hard drive startup sequence:
Assign videotracker: hd1:videotracker. If the partition you specified was different from hd1:, replace hd1: with the specified partition.

HOW TO LOAD COVERDISK 95

LOADING FOOTBALL GLORY
Insert the *Football Glory* coverdisk into the internal floppy drive. Type either 'Glory' or 'GloryAGA' depending on the type of your Amiga, and press Return. Use a joystick in port 2 to select one or two players. And it's as easy as that – so off you go now and enjoy yourself.

IF YOUR DISK WON'T LOAD

If your coverdisk doesn't seem to work as it should, then follow this simple guide. Firstly, remove all unnecessary peripherals, such as printers, modems etc. Follow the instructions on these pages to the letter, and if, after that, you find that the disk still doesn't work, call the DiskXpress helpline on: 0451 810 788 between the hours of 10am and 5pm from Monday to Friday.

If they advise you that the disk is faulty, fill in your details in the form below, and send this form, along with the disk and a 28p stamped self/addressed envelope to the following address:

CU AMIGA DISK RETURNS, DISKXPRESS, UNIT 7, WILLOW COURT, BOURTON INDUSTRIAL PARK, BOURTON-ON-THE-WATER, GLOUCESTERSHIRE GL54 2HQ.

NAME ....

ADDRESS ....

....

TYPE OF AMIGA OWNED...

DISK NUMBER..

DESCRIBE EXACTLY WHAT HAPPENS WHEN YOU TRY TO LOAD THE DISK..............

....

....

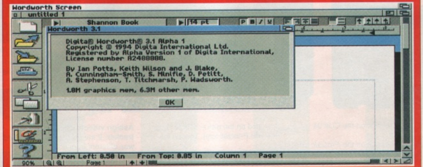
....

DISK VIRUSES

We try to ensure that all our coverdisks are completely free of viruses. We always have the most advanced virus checkers available when the disk is compiled and every program goes through rigorous testing on all relevant Amigas. However, we cannot accept any responsibility for possible damage incurred by viruses or faulty disks which have escaped our attention.

CU NEWS

NEW WORDWORTH


Wordworth Screen
untitled 1
Shannon Book
14 pt
Wordworth 3.1
From Left: 0.50 in From Top: 0.85 in Column 1 Page 1
90%
Page 1

```
Digita® Wordworth® 3.1 Alpha 1
Copyright © 1994 Digita International Ltd.
Registered by Alpha Version 1 of Digita International,
License number A2488888.

By Ian Potts, Keith Wilson and J. Blake,
A. Cunningham-Smith, S. Minifie, D. Petitt,
A. Stephenson, T. Titchmarsh, P. Wadsworth.

1.8M graphics mem, 6.3M other mem.

OK
```

Leading Amiga software house Digita have told CU AMIGA that a new version of their popular word processor, *WordWorth*, will be available later this month.

Digita said that the new version would offer dramatic performance increases and better use of resources over the existing versions, it will also have a few new features. The 'Find and Replace' function is apparently some 40 times faster, whilst the floppy disk handling routines have been overhauled making them more efficient and cutting down on the amount of disk swopping needed.

The new program will also feature drag and drop editing, a process that allows sections of text to be moved around quickly with ease, landscape printing, and better text filters for importing text files.

Upgrade pricing was still being sorted out as as we went to press. CU AMIGA will have a preview of this new version next month. Digita are on 0395 270273.

DIGITA COMPO

Digita are offering the first five available copies of *WordWorth 3.1*, with manuals signed by its programmers, as prizes in a celebratory competition exclusive to CU AMIGA. To enter, all you have to do is write the answers to the following questions on a postcard and send them to:

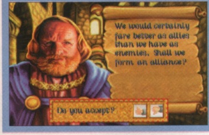
WordWorth Upgrade, CU AMIGA,
Priory Court, 30-32 Farringdon
Lane, London, EC1R 3AU.

1. How many Commodore hardware packs has *WordWorth* been in?
   A: 3 B: 4: C: 5 D: 10
2. How many times faster is the search and replace in the new version of *WordWorth*?

Rules: The editor's decision is final, only one entry per person, no correspondence will be entered into, answers will only be accepted by post, no employees of EMAP or Digita may enter and postcards from other magazines will be destroyed. Comp closes end of November '94.

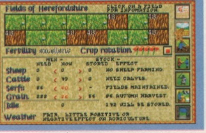
MAKING AN IMPRESSION

In a surprise move that quite literally rocked the computer industry, Daze Marketing have announced that they are to take over all the sales and marketing for strategic superheroes Impressions. Impressions, who have just had their biggest hit with *Detroit*, have never really managed to, pardon the pun, make a huge impression on the mass market – something Daze have never had a problem with. The agreement is effective immediately, and Cliff Guy at Daze is confident: "We'll have a good year with them" he claimed, yesterday. The first product to be released under the new arrangement is the *Defender Of The Crown*-like *Lords Of The Realm* – see screenshots below or turn to page 54 for an in-depth preview. For more information, call Daze on 071 372 7435.



We would certainly fare better as allies than we have as enemies. Shall we form an alliance?

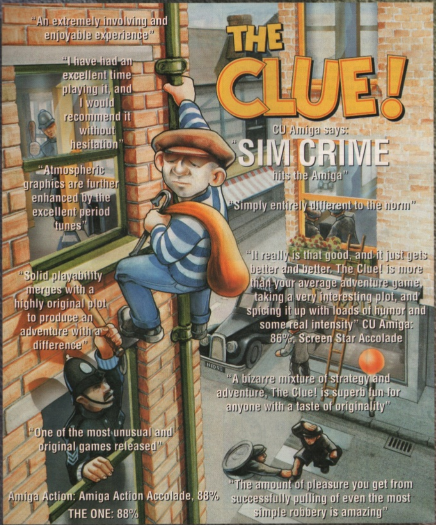
Do you accept?


Fields of Herefordshire
CLICK ON A FIELD FOR INFORMATION
48
Fertility excellent
Crop rotation
MEN -
NEED NOW
STOCK -
STORED EFFECT
Sheep 0 < 0 > 0 NO SHEEP FARMING.
Cattle 0 < 49 > 0 NEED CALVES.
Serfs 86 < 40 > - FIELDS MAINTAINED.
Grain 288 < 86 > 56 86 AUTUMN HARVEST.
Idle 0 142 WILL BE STORED.
Weather FAIR. LITTLE POSITIVE OR NEGATIVE EFFECT ON AGRICULTURE.

SIREN DRIVE A HARD BARGAIN

Siren Software are giving away a free video (normally retailing at £14.99) with every A1200/A600 hard drive. The video contains a step-by -step guide on how to fit hard drives into the Amiga. Hard drives from Siren range from 30Mb to 540Mb, with prices from £109 to £449 including VAT. Siren pre-install Workbench on their drives, and supply everything needed to fit them. For more information, Siren Software can be reached on freephone 0500 340548.

neo



"An extremely involving and enjoyable experience"

"I have had an excellent time playing it, and I would recommend it without hesitation"

"Atmospheric graphics are further enhanced by the excellent period tunes"

"Solid playability merges with a highly original plot to produce an adventure with a difference"

"One of the most unusual and original games released"

Amiga Action: Amiga Action Accolade, 88%

THE ONE: 88%

CU Amiga says: "SIM CRIME hits the Amiga"

"Simply entirely different to the norm"

"It really is that good, and it just gets better and better. The Clue! is more than your average adventure game, taking a very interesting plot, and spicing it up with loads of humor and some real intensity" CU Amiga: 86%, Screen Star Accolade

"A bizarre mixture of strategy and adventure, The Clue! is superb fun for anyone with a taste of originality"

"The amount of pleasure you get from successfully pulling of even the most simple robbery is amazing"

Available for
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MS-DOS VGA
Amiga CD-32
Amiga
1200/4000
Amiga 1MB

Sound & Music neo Project

The Time: The 1950's, The Location: London, Your Role: Matt Stuvysunt.
Matt is a very poor but ambitious thief, who finds the stresses of life are too much. To improve his standard of living, he decides to commit the ultimate robbery, to steal the Crown Jewels...

A game by ...and avoid panic by.

Produced and published by NEO Software Produktions GmbH, A-2552 Hirtenberg, Dobrischgasse 10
NEO UK, Fulling Mill Barn, Fulling Mill Lane, Welwyn, Herts AL6 9NP, Tel. 0438/840 004, Fax 0438/714 121

»

LANDSCAPES

A new 3D landscape generating program has been announced. *World Construction Set* follows on closely from similar programs such as *VistaPro* and *Scenery Animator* allowing 3D worlds to be modelled and rendered producing stunningly realistic images and animations.

The new program, from American company Questar Productions, brings a whole host of powerful creation, manipulation, rendering and animation features to the Amiga. Amongst its more interesting capabilities are low RAM overheads (ie it can create hi-resolution images without requiring the masses of memory demanded by similar programs), numerous landscape creation tools that include multiple ecosystem types such as: water, rock, grass, conifer and deciduous trees, the ability to add man made objects to terrain (boundaries, buildings, roads etc), graduated colour and animated bitmaps for backgrounds. There are also an impressive (on paper at least) array of animation tools such as: automatic turn banking, spline control of motion paths, batch rendering, and compatibility with *LightWave* motion files.

UK distribution was still being sorted out as we went to press. In the meantime *Word Construction Set* is available for a limited period direct from the manufacturers for $195, the normal price being $250. We hope to have a review next month. Questar Productions are on 0101 303 659 4028 (USA).

NEW GENLOCK

Amitek have launched a new genlock. The 'professional' genlock supports composite input and output, and the ability to switch between Video, Computer and mixed outputs. It also has hardware fade and RGB thru facilities.

The genlock is available from Silica on 081-309 111, price: £99 and has a two-year warranty.

GAMES CHART

The Amiga Top 10 Games Charts compiled by HMV.

→ 1 Theme Park
→ 2 On the Ball
→ 3 Kick Off 3
→ 4 Club Football Manager
→ 5 UFO
→ 6 Skidmarks
→ 7 Beneath a Steel Sky
→ 8 Tactical Manager
→ 9 World Cup Year 94
→ 10 Sensible Soccer (Int. Edition)

CHARGEUR CARD

Ocean Software, not content with lining up a huge number of Electronic Arts games for this Christmas, have recently signed a deal with one of France's largest media conglomerates in a multi-million dollar minority stake sale. Ocean are intending to use the new injection of funds to launch some of the biggest CD-ROM titles ever. Chargeurs, the French company whose interests lie heavily in film production, distribution, cinema, television and the development of interactive educational products have acquired approximately 24% of Ocean's equity.

Ocean Group Chairman David Ward said to CU AMIGA: "It is an ideal fit for both companies. The French are backing state of the art British technology and in return we are getting strategic assistance through their strong links with the entertainment industry as well as the extra financial muscle to grab a bigger bit of the world wide computer games software market."

VIDEO PIZAZ!

If there's one thing that the Amiga does better than any other computer it has to be be video work. Video FX is a new company set up to publish video production utilities and has chosen to release them solely on the Amiga for this reason.

VIDEO
FX
FADE
IDENT
PIZ AZ

Their first release 'Pizaz' is a video titling system which provides extensive scrolling and animation facilities, such as character rotation, expansion and folding. Text can be scrolled up, down, left or right by character, word, line or page at a variety of defined speeds.

The Pizaz is priced around £59.99, but as an introductory price the program is available for just £49.99 for three months – or you can buy a demo version for £10 which is refundable upon the purchase of the full program. Call Video FX on 0443 674385.

Alternatively you can win one of five Pizaz systems by writing the following questions on the back of a postcard and send it to: Zazip Compo, CU AMIGA, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

1: How many directions can Pizaz scroll text in?
2: What is the introductory price of Pizaz?
3: What is the UK's best Amiga magazine?

The editor's decision is final, no correspondence will be entered into, no employees of Video FX or EMAP may enter, entries must be in by December 20th and only one entry per person is allowed. The winners will be printed in the January issue.

Digita Keep 'em Coming

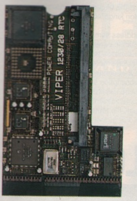
Not just content with upgrading their hugely popular word processor Digita have also announced plans to introduce a new database and relaunch several of their older products under a single name. No details of the database were available at press time, however it is known that the new package will be competitively priced, and have a complete and comprehensive selection of features.

In the meantime Digita have launched a new pack called 'Home Office' which includes four programs – Home Accounting, a Diary, a simple label database and a spreadsheet – for just £49.99. t.

Digitia are taking orders for the Home Office package now on 0395 270273.

POWER COMPUTING
DESIGN *and* INNOVATION

VIPER 68030 SERIES



VIPER FEATURES

- RAM Upgradable to 128MB*
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- Optional SCSI-II adaptor
- 68882 Maths Co-processor
- On-board battery backed clock
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- Much faster than an Amiga 4000/040***

new

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Full 030 with MMU at 28MHz, FPU upto 50MHz

BARE BOARD	£149
4MB 28MHz FPU	£299
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Full 030 with MMU at 33MHz, FPU upto 50MHz

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4MB 40MHz FPU	£429
4MB 50MHz FPU	£445

VIPER 40

Full 030 with MMU at 40MHz, FPU upto 50MHz

BARE BOARD	£249
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4MB 33MHz FPU	£419
4MB 40MHz FPU	£459
4MB 50MHz FPU	£479

CO-PROCESSORS

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33MHz FPU	£60
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50MHz FPU	£120
SCSI-II ADAPTOR	£79
8MB SIMM	£319

HIGH SPEC, LOW COST

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XL DRIVE 1.76MB

The new XL Drive 1.76MB now comes in a brand new metal casing which is half the height of a standard external floppy drive. The XL Drive allows you to store a massive 1.76MB on a high density disk. The A4000 internal drive fits perfectly underneath the original drive, no case cutting required.

XL DRIVE 1.76MB	£59.95
XL DRIVE INTERNAL	£55.95
XL DRIVE A4000 INT.	£55.95

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SUPER XL DRIVE

The Super XL Drive is the only kind of floppy drive of its kind on the Amiga market! The innovative drive can store a massive 3.5MB on one high density floppy disk. (without compressing the file!). This drive is available from late November/early December.

new

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We use the same drive mechanisms as Commodore to ensure complete compatibilty.

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The Power Drive is most impressive drive of its kind on the market and now includes Blitz Amiga and Floppy Expander. Floppy Expander allows you to compress files only on floppy disks by up to 50%. Other features include: Anti-click, Anti-Virus, Isolation Switch, 2 Year Guarantee, Thru'port, Cyclone Compatible Chip, Built-in Backup Hardware and Blitz Compatible.

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DAVID PLEASANCE WRITES

Regular readers of this column will have been charting the progress of our management buyout bid over the past few months. And I know I said last month that I was hoping to give you the news that it was all signed and sealed.

Inevitably I suppose things are taking a bit longer than we'd hoped. However we're now pretty sure that our bid is the best and we've got the money on the table. At this stage it's just a case of our lawyers and the liquidators' lawyers arguing over the small print. It's a very frustrating time: all we can do is sit tight and wait. We expect bids to be put before the courts in the next few days [mid October] for formal ratification which is the last major hurdle.

After that we hope we'll be able to tell the world about our plans for the Amiga over the next few months – rest assured, you'll be the first to hear.

In the meantime Colin and I are on the receiving end of huge quantities of goodwill faxes and calls. In some cases there are practical offers of support and business partners for the new business. In some cases they are straightforward things like "Best of luck, we know if anyone can do it you can!" It's immensely heartening to get so much encouragement whole Amiga worldwide community and makes me even more confident about the future.

Our financiers are very excited about the future for Amiga, both in the UK and worldwide. They believe as we do that the dual combination of the CD platform at an affordable price and the world's best entry level home computer is the right mix for the market.

We're starting to think about Christmas now and are putting the finishing touches to the Christmas bundle for the A1200. We've been spending a great deal of time with the software producers to make sure that the contents reflect what's best amongst the breaking titles, combining play with productivity as ever. And of course we'll be pricing the bundle competitively too. We'll keep you posted with release dates.

Meanwhile arrangements for the World Of Amiga show are advancing apace. We're really pleased to be putting on our own show again after a couple of years away from it. And judging by the response we've had from both potential exhibitors and the ticket hotline, everyone else welcomes our return.

The interest has been incredible. Although the show is still two months away we've sold two thirds of the space already. That's as good or better than in past years. And the attractions are really hotting up as well.

For those of you who don't know, the show is taking place at the Wembley Exhibition Centre on the 9th, 10th and 11th of December. Just in time to get that all important Christmas present. It will be open from 10am until 5.30pm on Friday and Saturday and from 10am to 4pm on Sunday. It will cost £6.00 for adults and £4.00 for anyone under 14. There will also be a family ticket for two adults plus two children for £15.00.

As well as a dedicated area for Amiga user groups which I told you about last month, there will also be a software arcade and Software City where you can come and see some of the biggest and best games this Christmas. All the big players will be there, so you can make sure you've got the latest tips and cheats as well as sussing out all the latest titles.

We'll also have a publishers plaza where you can meet and greet the editors of your favourite magazine – and one or two others.

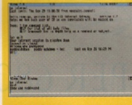
And for those of you interested in the productivity side of the Amiga, you can stroll around the A.C.E. village where you can have a look at all the latest animation, video, music and so on and talk to some of the companies at the forefront of Amiga development.

Perhaps closest to my heart, there will be a big retail park where you will be able to use your hard earned cash to buy just about anything Amiga that you can think of. I'm convinced that this aspect of past Amiga shows was what really made them buzz, and I'm sure that this will be no exception. It goes without saying that products will be at show prices, and for the first time, if you buy products at many of the stands you'll receive vouchers which will enable you to get your entrance money back. Not bad!

We're expecting to have Kiss FM broadcasting live from the show over the weekend and they'll be running all sorts of competitions, allowing you to get involved.

It goes without saying that we'll be there and I'm looking forward to meeting as many of you as possible. See you at Wembley!

PADDY DOWNLOAD

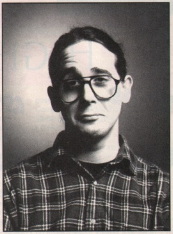


Internet continues to grow – in surprising directions. This month both the Liberal Democrats and the Samaritans have decided to log on. From October it will be possible to contact Britain's third largest political party via Cix. All Lib Dem MPs are being kitted out with PCs and modems in preparation for setting up their own mailboxes and you'll also be able to access all the party's policy papers and published documents. As of the beginning of October you can mail party leader and county set fashion king Paddy Ashdown on: paddyashdown@cix.compulink.co.uk).

Also now on Cix are the Samaritans (address samaritans@cix.compulink.co.uk), or anonymously at 111848@anon.penet.fi. The Samaritans on-line service has already received several messages from users needing emotional support. We don't know if they include members of the Lib Dems.

Meanwhile, the BBC is to offer 'easy public connection' to Internet. The BBC Networking Club will charge a flat subscription of £12 a month (with no further charges – apart from the telephone call charges) which gets you a 'plain English handbook' explaining communications. The service will provide full Internet access, with electronic mail, file transfer, UseNet news groups, World Wide Web etc all available. For further details call 081-576 7799 or Email them at info@bbcnc.org.uk.

TONY DILLON RIP



Tears rolled down the cheeks of the CU AMIGA crew last Friday as Games Editor Tony Dillon sadly departed from our midst. Before you get any silly ideas we must tell you that RIP actually stands for Really Improved Pay – Tony has scaled the lofty heights of management, begged on bended knees before them and come back down with a completely different job. We always told him that he was a bit seedy, but now he's taken our criticism to heart in his usual dyslexic way and shoved off to become EMAP's CD ROM Editor. This means he'll spend most of his time messing about with PCs! The rotter. Still, he loves the Amiga and has promised to write to us (and for us) in the future. Bye Bye.

DON'T INTERRUPT ME!

VERO, suppliers of the Back-UPS Pro series of uninterruptible power supplies (reviewed in Get Serious, page 86) are doing a special offer for CU AMIGA readers. The Back-UPS Pro weighs an incredible 11.3 kilos and is only the size of a toaster, but it can provide the professional or serious user with the peace of mind that should lightning hit the local power station, or a drill, washing machine or hoover seem likely to ruin your renders, all will be saved by this little white box's ability to provide continuous, uninterrupted power back-up. Normally priced £189, VERO will supply one direct to you for £166, including VAT & Carriage if you quote this reference: PFF 40932. VERO are on 0703 266 211. Offer closes end of November '94.

If you have a new product, news or gossip that you think we'd be interested in why not let us know. Write to CU AMIGA at Priory Court, 30-32 Farringdon Lane, London EC1R 3AU or fax us on 071-972 6703.

UFO

ENEMY UNKNOWN

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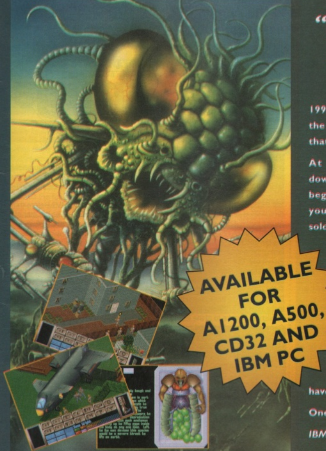

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"This is the best game I've ever seen" 97%

COMPUTER GAME REVIEW

1999. You are in control of XCom; charged by the world's leaders to strike at the alien menace that's terrorising the Earth.

At first, you'll scan, track and shoot down the slower UFOs, but that will just be the beginning. Whenever a UFO crashes, or lands, you must be there; leading a squad of armed soldiers from building to building, from street to street, using all your tactical skills to capture or destroy the aliens.

If you succeed in your first missions, your scientists and engineers will copy the alien technology to create more powerful weapons and craft for your forces to use. Gradually, you'll build up a terrifying picture of this Unknown Enemy, and their real aims and desires, then you'll have to work out a strategy to stop them.

One thing is certain - it won't be easy!

IBM PC screenshots shown. Actual screens may vary

STRATEGY

MICROPROSE

AMIGA INTERNATIONAL?

As we go to press no final decision has been made on whethe David Pleasance and Co will win the rights to the Amiga. But what's likely to happen if they do? Alan Dykes investigates.

World of Amiga
WEMBLEY
9–11th DECEMBER 1994

A World Of Amiga show, open to the public, has been planned for Wembley in December of this year, a press re-launch event has been planned even sooner – mid October to be precise. All of this is neccessary for a company that intends to take the home computer market by storm all over again; but to date there's nothing to celebrate. The legacy of debt and quagmire of international companies left behind by Commodore International has meant that the decision-making process involved in a takeover, spread out between the official liquidators in the USA, the courts in the Bahamas, investors all over the world and those bidding for the company, is slow and tiresome. Yet another month has passed by without any real indication of what's going to happen. There are jobs on the line and a lot of worried retailers and users.

But what happens once a takeover has been approved and the cheque has been cashed by the liquidators? If Samsung get the go-ahead nothing is certain. They are rumoured to be interested only in the technology involved in research and development which has already been carried out, and still is underway, on the Amiga's behalf. For them re-starting actual production of a machine which they are unfamiliar with and which has been out of the mainstream limelight for some months now, cannot be a very enticing prospect.

The other interested parties, both in the USA and both former distributors of the Amiga, have more to gain by continuing production, especially of the high end machines. But where would that leave us? In the US big box Amigas, with their internal expansion capability, have always been the most popular. Users have been spurred on by the success of Amiga-based machines like the Video Toaster and supported by much high end software. From this stance they cannot hope to understand the UK and European market. Yes, this side of the Atlantic we do understand and appreciate the A4000. Yes we have some of them. But the overriding need here is for a competent, machine that is easy to expand but is still affordable and capable at its the entry level price: the A1200.

Of course many Amiga fans would argue that high end machines are where the future lies: in direct competition with the Mac and PC. But where does the money come from to fund the new generation of high end products? From low end sales. From you and I, the average reader and user of A1200s, not spanner-wielding fanatics like Andy Leaning with their low turnover, high profit bits and bobs.

And this is where Messrs. Pleasance and Proudfoot, UK Amiga connoiseurs come into the picture. David Pleasance is committed to the Amiga's future, in whatever guise, and Colin Proudfoot is damn sure he's got the financial backing to make a UK based Amiga International organisation a major player in the world home and professional computer market.

But sound financial backing doesn't fly in the top window and land on one's lap. A decent plan has to be formulated before the city decides to invest and this is going to be the interesting bit. Full details will not be released until the re-launch is confirmed but he has given CU Amiga some hints about what direction the company needs to go in to succeed in a changing world.

WHICH PRODUCTS?

As revealed last month a UK-based Amiga International would concentrate on selling the A1200 and CD32 here in the UK and Europe while heavily marketing the A4000 in the US and elsewhere. But the current range will not last forever and the Amiga people know this. The A1200 will need a CD ROM drive which will enable it to run CD32 software if it is to remain viable in the next year. Most games software publishers I spoke to at the European Computer Trade Show in London at the beginning of September were adamant about this. The current base of CD32s in the UK and Europe and the likelihood of only very few being available this Christmas has meant that most are nervous about lining up too many releases on CD.

The biggest problem this creates is where PC conversions are concerned. Most titles being developed for PC are under way on CD ROM. The cost of converting them to Amiga CD would be minimal in most cases, indeed many developers have come from Amiga backgrounds anyway, but without a mass market – which an A1200 CD drive would provide – publishers are unwilling to undertake this conversion. Yes, Overdrive and Zappo CD drives will run some CD32 software but the lead and assurances of compatability need to come from the former Commodore before confidence returns.

And what about FMV? Before the current upheaval this was the star of the show, the saviour of CD32 and the bane of CDi. The main reason Commodore UK were not so keen on the A1200 CD ROM drive which we revealed to you earlier on this year was because of FMV incompatibilty. But this isn't important at the moment. Why hold back something as essential as a CD drive which would potentially allow hundreds of games to run on the A1200 simply because it might not be compatible with a couple of FMV based games, which we probably won't see for some time yet?

Where CD32 is concerned, any new marketing scheme needs to include the FMV card though, and at a reasonable price. As CDi and 3DO slog it out in 1995 the CD32 is going to need all the help it can get – and compatibility with a wagonload of hollywood movies will not do it any harm. And what about the CD64? This has not been officially acknowledged but must be on the cards. Rumours of its development have abounded and it would certainly give the company a new edge.

There is also talk in the medium term of a possible mid-priced machine, offering something in

between the capabilities of the A1200 and the A4000 040 and at a reasonable price (£700 – £800?). This would bring the Amiga into lower end PC and Mac territory in terms of pricing and would marketed as a machine with specialist capabilities, much the same way as the Mac has been marketed in the past.

HIGH RISC STRATEGY?

Attacking the Mac and PC is a neccessary strategy but this is becoming even more dangerous with the development of common components between the two biggies. The Power PC chip which has been developed jointly by Motorola, IBM and Apple and has replaced the Motorola 68000 series chips in the latest Apple Macintosh models (if this sounds familiar it's because the Motorola 68000 series is also used in the Amiga) is paving a powerful way towards the future of processing and the Amiga will need to keep up with these developments.

Towards this end, as we reported last month, resources are being utilised to develop a RISC based CPU to be used in the next generation of Amigas. All current Motorola chips are CISC processors, which basically means that they use a relatively complex instruction set which limits the speed of their operation. A RISC chip has a very simple and short instruction set which allows information to be processed much faster – but needs more complex programming. These new machines should be seen in the next 12 to 18 months and will be a just reward for continuing Amiga fanatics.

New machines and updated specs for current ones are essential for the Amiga's survival and that of the proposed Amiga International. They need to move quickly, but that is what their corporate plan is all about. All they need is the go-ahead from Commodore International's liquidators. Hurry up. The world will not wait and the Amiga won't hold on to its loyalty forever.

WHAT A SHOW!

The good news is that through good or bad, thick or thin the World Of Amiga show is still going ahead. All the major magazines will be there, including ourselves, our terribly unfunny sister magazine The One and former CU Amiga editor and jaded Amiga hack Steve James from Computer And Video Games. Most of the Amiga world will be there too including all of the UK's major shops and distributors, product stalwarts like Power Computing and Amiga and CD32 games software publishers like Gremlin, Team 17 and Kompart. For more information and to book tickets the number to call is 01369 7711. CU

32bit
AMIGA CD32
AMIGA CD32

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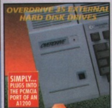
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GOLD

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40MHz 68EC030 - 2Mb RAM	£319.95
40MHz 68EC030 - 4Mb RAM	£359.95
40MHz 68EC030 - 8Mb RAM	£489.95
50MHz 68030+MMU - 0Mb RAM	£299.95
50MHz 68030+MMU - 1Mb RAM	£349.95
50MHz 68030+MMU - 2Mb RAM	£389.95
50MHz 68030+MMU - 4Mb RAM	£429.95
50MHz 68030+MMU - 8Mb RAM	£559.95
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25MHz 68882 Maths Co-Pro (FPU)	£49.95
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50MHz 68882 Maths Co-Pro (FPU)	£119.95
BLIZZARD 1230/II & VIPER RAM SIMMS	
4Mb RAM (other sizes - please phone)	£129.95

As both RAM SIMM and FPU prices can fluctuate based on currency exchange rates and world supply/demand, please confirm latest prices prior to ordering.

GOLD
Viper 68030 Turbo

NEW LOWER PRICES FOR VIPER TURBO ACCELERATORS

VIPER 68030 TURBO ACCELERATORS	
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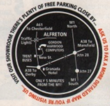

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It's the little things in life that count. You'd be amazed how many letters and faxes we get with problems, general mishaps and ideas which we can't possibly reply to in person. Here are just some of the tips generated from this contact. Some are brilliant, others will seem obvious and mundane but believe this: some of them could save your health and sanity!

101 AMAZING TIPS

1 Get yourself comfy for the following revolutionary, life-changing tips.

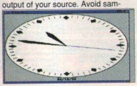
2 When using Workbench with no hard drive, use the Resident command to cut down on disk swops. Entering the following lines in Shell will help enormously:

```
resident c: copy
resident c: list
resident c: dir
resident c: makedir
resident c: delete
```

3 Don't put your disk drive's health at risk from damaged disks. If the sliding metal cover of a disk is bent or disfigured in any way, carefully but firmly remove it from the disk. This will leave the internal floppy section of the disk exposed. You should now make a copy of the disk, and work from that instead. Damaged disks can get stuck in the drive, and cause even more havoc when you try to pull them out.

4 Avoid beer-free late night computing: use the Workbench alarm clock program during evening sessions to warn yourself of imminent off licence closure.

5 Cut down on unwanted noise by sampling sounds directly from the output of your source. Avoid sampling through mixers and amps.



You're just settling into an all-night session with your Amiga, when you discover you're right out of beer/crisps/coke/chocolate (delete as applicable). The Seven Eleven closes in ten minutes – good job you had your Workbench alarm clock to remind you!

6 Tone down strong colours before recording graphics onto video. Unless you want a highly saturated effect, it's best to reduce the amounts of red, green and blue in your images

7 Transform your Amiga into a realtime sound-to-light video effects machine. Combined with an altered version of the Light Organ available from Maplin (tel: 01702 556001, 2-4pm), *VideoTracker 2* from this month's coverdisk can be made to respond to bass, mid range and treble frequencies of incoming sound and music – perfect for visuals accompanying live music or a DJ. Details in the next issue of CU AMIGA.

8 Cut and paste from the shell into other programs which use the Amiga Clipboard by using RIGHT AMIGA X to cut, RIGHT AMIGA C to copy and RIGHT AMIGA V to paste.

There's an audio-visual revolution going on with *VideoTracker 2*! Your Amiga can now respond to any audio signal (your favourite CD for example), by displaying your own choice of graphic effects and animations in perfect time with the music. See Tip 7.

9 When buying from mail order outlets, ALWAYS phone first to check availability.of the product.

10 Right Amiga key and Q quits out of most Amiga programs.

11 Press the up arrow key when in SHELL to retrieve the last line you typed.

12 Keep disks that you don't need to save write protected to avoid any virus infection.

13 Don't reset the Amiga with the power switch – hold down the two Amiga keys and the CTRL key.

14 If you use an amplifier make sure it is off when you turn the computer on or off, to avoid damage from power spikes.

15 To avoid any damage don't take a disk out of the drive when the disk access light is on.

16 If the access light stays on, listen carefully to the drive and feel for vibrations to see if the disk is actually going round or if the light is just stuck on, before removing the disk.

17 When connecting up the Amiga, always connect the power cable last.

18 When disconnecting, take out the power lead first.

TOP TIPS

19 Channel both stereo channels of the A1200 into mono by connecting just one of the audio outputs to your amplifier.

Normally, the Amiga outputs two of its four sound channels through the left phono socket, and the other two through the right phono socket. This can sometimes make for uncomfortable listening, as the stereo positioning is hard left for half the sounds, and hard right for the others. You might prefer to have all the sounds coming from one speaker. This is possible with the A1200 and A4000, simply by connecting just one of the audio outputs to your amplifier or hi-fi. The computer realises that there is nothing connected to the other output, and pushes all four channels through the port that's connected. However, try this with an older Amiga, and you'll only hear two of the channels.

20 Keep drinks away from the computer. They might spill and cause terminal damage to your Amiga – especially if your name is Michael Banks from Kent.

21 Hold down CTRL and the D key to interrupt the startup-sequence, or any Workbench script.

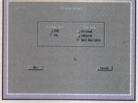
22 To avoid jerky mouse movements clean your mouse by removing the ball and scraping grime from the rollers.

23 Jump between different screens by pressing Right Amiga in conjunction with M and N, instead of pulling the scroll bars up and down.

TOP TIPS

24 Amigas with Kickstart 2.04 and above have boot options available. Access these by holding down both mouse buttons when you reset or turn your Amiga on.

These options can be very useful when running old programs on the A1200 or A4000. Compatibility problems can often be overcome by selecting Disable CPU Caches from the Boot Options section, and changing to Original Chipset, selected from the Display Options. Switch between the European PAL (50Hz) and American NTSC (60Hz) modes with the spacebar.



25 The Workbench mouse pointer can be controlled by the keyboard. Hold down the left Amiga key and move the pointer with the arrow keys. Hold down shift as well to move in bigger steps. The right and left Alt keys correspond to the right and left mouse buttons. Also see tip no. 46.

26 Avoid having to open the same set of windows to load an often-used program from your hard drive. Select Leave Out from the icons menu, then drag its icon onto the main Workbench screen. Finally select Snapshot from the icons menu.

27 Get a screen-saver to keep your TV or monitor from developing screen burn from frequently used programs. Get one from any good PD library.

28 Show your grandchildren what it was like in the old days, by loading up a Spectrum emulator and playing something like *Jet Pac*.

29 Save memory by closing down windows on the Workbench screen.

30 Turn your Amiga into an echo chamber with last month's *Realtime Effects Generator* coverdisk program and a sampler cartridge.

31 Replace your mouse with a trackball if you are short on desktop space.

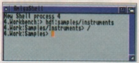
32 When recording graphics to video tape, view the visuals on a separate TV or monitor, taking a signal from one of the remaining video outputs.

33 Turn your Amiga into a strobe light by setting up a blank two-colour screen in *Deluxe Paint* and colour cycling between black and white at high speed.

34 Spread the word. The Amiga is the world's best kept computer secret.

35 Use a backslash (/) to return to the parent directory from within Shell.

36 Choosing Quick Format when erasing a disk is indeed quicker, but will often lead to problems, as errors are not checked for at the time of formatting. Use the normal Format if you want to be safe.



```
New Shell process 4
4.Workbench:> hd1:samples/instruments
4.Work:Samples/Instruments> /
4.Work:Samples>
```

Did you know that you can jump back to the parent directory from within the Shell, by typing a backslash and pressing Return? You do now!

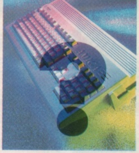
37 Use a VCR as a TV tuner, which you can view through a monitor. The picture quality will be far higher than you'd get from a normal TV setup.

38 Use *OctaMED*, *Protracker* or a MIDI sequencer to write a hit record.

39 Do you own video to go with it, using *VideoTracker* from this issue's coverdisk.

40 Create your own three screen video wall with your A1200. Connect the RF output to a TV set, the RGB output to a monitor, and the Composite Video output to another monitor. Arrange the screens in an attractive pattern and load up some trippy graphics, a good 3D game or a PD demo.

41 If your Amiga appears to have died, borrow another power supply and try it with that. Faulty power supplies account for the majority of Amiga failures.



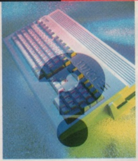
42 Deter burglars by sampling various household noises such as a dog barking, people talking, a loop from a record, and write a simple program to play the samples at random, thus suggesting that there are people in the house. You can set this up, and leave your house content in the knowledge that no-one will try to break in.

TOP TIPS

43 Write the next Christmas number one arcade game and make lots of money.

Start now, and you should be able to have it all ready for December 1995. Here's the plan. Find one of the following: a favourite old game style that went out of fashion about three or four years ago; a top coin-op arcade game that you think you can convert to the Amiga; a really flashy new graphic effect (something three dimensional would go down well); or an original game style that's at least as good looking as it is fun to play. Now you can take your pick from the programming languages available: C, Assembler, AMOS, Blitz Basic and so on. Once you've written enough to make people say "Gosh!" when they look at it, you can offer it around the software houses. With any luck, one of them will finance the rest of the game's development, and give you lots of royalties when the game shoots to the number one chart position. Easy. Not!

»



44 Buy a few marker pens (metallic ones are best), and colour-code the tops of all your disks. For example, games could be gold, demos could be silver, applications could be red. You then only have to flick through a fraction of the amount of disks to find the one you want, as you can instantly tell which disks are which.

45 The left mouse button can be emulated with the firebutton of a joystick in port one.

46 If you get continual read/write errors on your disks, it's probably the disk drive that is faulty. Check it with your local dealer.

47 Add a bizarre twist to your animations. Connect a video camera to the Amiga via a genlock. Play your animation, and point the camera at the screen, wobbling it around a bit. Mad feedback effects will fill in all of the transparent "background" parts of the animation.

TOP TIPS

48 Save memory by tweaking the boot options. If your Amiga has Kickstart 2.04 or above, you can save memory disabling unnecessary drives. If you have any external drives attached, or an internal hard drive that you're not using, turning them off will win back a small amount of RAM that would otherwise be used as a cache to increase the drive's access times.

Hard drive startup-sequences often include background tasks and other memory allocations. If you had a demo on your hard drive that needed all of your available RAM, you could bypass the startup-sequence and go straight to the Workbench screen. Select Boot With No Startup Sequence, then type LOADWB {return} ENDCLI {return}. You may have to click in the window after the LOADWB bit to get the cursor back again.

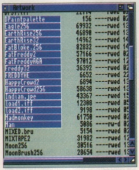
49 Keep your disk drive heads free from grime by regularly using a cleaning disk, available from any good computer supplies shop.

50 Get your name and address printed on lots of tiny gold coloured sticky labels, which you can put on the top of all your correspondence.

TOP TIPS

51 Do you always get a # sign when you actually want a £ sign? You have the wrong keymap setup. To solve the problem insert the following line near to the end of your startup-sequence: setmap gb.

52 Perform batch processing functions in Workbench by holding down the left Shift key, and clicking once on all the icons to be processed. Now select your function from the menus. This will be carried out on all the selected files. With Workbench 2 and above, you can select your files by holding the left mouse button and dragging a box around them.



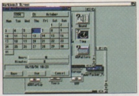
```
DPaintpalette          156 ----rwed
Eagle256             69932 ----rwed
EarthRise256         46898 ----rwed
EarthRise32          14962 ----rwed
FatBloke.256         82832 ----rwed
FatFreddy2           57166 ----rwed
FatFreddyAGA         97012 ----rwed
Freddy32             36392 ----rwed
FREDDYHE              6652 ----rwed
HappyCrowd2           6894 ----rwed
HappyCrowd256        58638 ----rwed
Indian.jpe           43367 ----rwed
load1.iff            12308 ----rwed
load2.iff             9198 ----rwed
Madmonkey            61758 ----rwed
Man                   5086 ----rw-d
MIXED.bru             5154 ----rwed
MIXTAPE2             31982 ----rwed
Moon256              30516 ----rwed
MoonBrush256         28654 ----rwed
```

Make use of the batch-processing features of Workbench to speed up file transfers.

53 Tidy up your Workbench 3.0 windows the easy way. Open a window that contains some messily placed icons. Hold down the right Amiga key, and then press each of the following keys in turn (ignore the quotation marks): "." "A" "S".

54 Does your Workbench clock still think it's 1978? You can set the date and time from the Prefs section of Workbench. Double click the Time icon to bring up the clock setting panel. Click the Save button to permanently store the settings.

55 Create your own techno videos by recording random segments of demos, games, animations and live footage from a camcorder if available onto a VHS video tape. If your video recorder has an 'audio overdub' facility, you can then add your own soundtrack to the whole video, by simply recording your choice of music onto the tape. This will leave the pictures intact.



Many Amigas are still living in 1978, according to their clocks. Set yours straight with the Time preferences in Workbench.

56 Use old corrupt floppy disks as drinks coasters – they're great for breaking the ice at techie-head spanner parties.

57 Use a car stereo type graphic equaliser as a mini amplifier for your Amiga's sound. You can then channel this through any small speakers.

58 Some TV sets cut off the top or bottom of the Amiga's screen. Rectify this by altering the Amiga screen's position from the Workbench preferences with Workbench 1.3. Use the Overscan preferences from Workbench 3.

59 Make your own 'mouse tracer' add-on. Attach a short strip of clear plastic to the bottom of your mouse (part of an old cassette case will do for the plastic). Draw a crosshair on the end of the plastic. By guiding the crosshair around key areas of a printed picture, you can accurately translate it to *DPaint* or any similar art package.

60 Speed up rendering times with 3D ray tracing and fractal programs by adding an FPU to your Amiga.

61 Create a list of your most often-used programs, and add them to your Workbench 3 Tools menu. You can now start any of these programs by simply selecting their name from the Tools menu. To do this, you'll need a PD utility called *Tools Daemon*, which is available from most PD libraries advertising in this magazine.

62 Be very cautious when advised to use Diskdoctor by the Workbench. Many game disks, if inserted when Workbench is running, will appear as bad. You may be told to correct them with Diskdoctor, when the disk could be in perfect working order. If you do so, you'll definitely damage the disk. This is because Workbench can't understand the anti-piracy formats of many game disks – Diskdoctor attempts to re-write the data in a form it can understand. If this happens with a non-game disk, try running it through a virus checker first.

63 Give two-player games added novelty factor by connecting two screens to the Amiga, one for each player. Choose from the composite video, RBG and RF outputs. Non-AGA Amigas only have the RBG and black and white composite video options. See also Tip no. 42 on creating a video wall.

TOP TIPS

64 Save memory on Amigas with low RAM by altering disk startup-sequences: If you find you are always short of memory when using your favourite graphics or music program, you can probably get some back by altering the startup-sequence on the disk. For example, instead of loading the main program straight away, many disks open up a Workbench screen first. On a 1Mb Amiga, the RAM this uses can be significant. Follow these steps to edit your program disk's startup-sequence.

1. Load your Workbench disk.
2. Make a copy of the disk you want to alter. Put the original away and work on the copy.
3. Replace the Workbench disk and open a CLI or SHELL window.
4. Type the following, disregarding the quotation marks 'resident c: ed'
5. Press Return.
6. Swop the Workbench disk for the copy of your program disk.
7. Type the following, disregarding the quotation marks 'ed df0: s/startup-sequence' and note that df0: is the letters d, f, and the number zero, not the letter o.
8. A window will appear containing the disk's startup-sequence. Use the cursor keys and the delete key to remove all the original lines.
9. Go back to the top of the window, and type the name of the program file that you want to run automatically when you boot from that disk.
10. Press the Escape key followed by X and then Return.

This may not always work, but it's worth a try.

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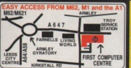

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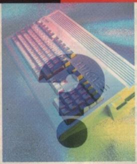


65 Play animations far larger than your RAM capacity, by spooling them direct from a hard drive. BigAnim is a public domain utility designed to do this. The length of the animations is only limited by your hard drive space. Frame rates tend to fluctuate a little with more complex animations, although a faster hard drive will minimise this. BigAnim is available from most PD libraries in this issue.

66 Plan your car journeys with your Amiga. Use *GB Route*, given away with the July 1994 issue of CU AMIGA.

67 Keep your spirits up during long computing sessions. Write a program that pops up every so often with a cute little man who waves at you and blows a raspberry. Run this program from the hard drive startup-sequence, so that you little friend is always there when you need him.

Hello, I'm your little computer friend.

Computing can be a lonely business. What you need is a little friend to cheer you up.

68 Keep your Amiga away from direct sunlight and any other direct heat sources. Damp and cold conditions can also adversely affect your machine.

69 Don't risk breaking your A1200 RAM expansion when you plug it in. Line it up with the trap-door port, and use two small screw drivers to lever it into place.

70 When buying a new Amiga, seriously consider holding onto your old machine. You may not get much for a basic A500, but a second Amiga can be very handy to have. You can hook it up to *OctaMED* and have twice as many sample tracks, use it as a second video source for presentations or 'live' recordings, or have it as a back-up machine, whenever your main Amiga is busy with other tasks.

71 Check out the PC public domain libraries and bulletin boards for an alternative source of sound samples, graphics and fonts. PC sound sample files (WAV and VOC formats) can be converted to IFF format with an Amiga utility called Sample Machine, available from Valley PD (tel: 091 587 1195). CrossDos or a similar utility will allow your Amiga to read double density PC formatted disks. A1200s and A4000s have this ability built-in to Workbench.

72 If you submit any designs, artwork, ideas or demos to companies, post a copy to yourself via recorded delivery and leave it sealed up in a safe place. This will act as protection against copyright infringement.

73 Avoid pirated games, they are the most likely source of a disk virus.

74 Safe-guard essential system files on your hard drive by using the protect command. See you Workbench manual for details. Otherwise, installation scripts can sometimes replace existing files with different versions.

75 Read up on real-life flying techniques, and try out the manoeuvres in flight simulations.

75 When you're stuck in an arcade game, try recording your progress onto a video tape to see where the attack waves are coming from.

76 Keep your feet warm during those late night sessions by taking off your shoes and resting your tootsies on the Amiga's PSU (Powers Supply Unit).

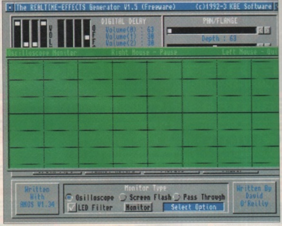
77 A1200 owners, free extra memory during critical operations by using the prefs/screenmode option to change your screen to NTSC.

78 Save time getting JPEG pictures by using a program such as *ViewTek* and a screen grabber.

79 A1200 owners, if your machine is out of guarantee, try fitting a third height 3.5" hard drive instead of a 2.5" unit. You will save yourself pots of money. WARNING: Inexperienced users should not attempt this! IBM and Connor drives require special fitting!

80 Encourage PC users to realise that the Amiga is more fun than their machine by taking printed notices and leaflets into work.

81 DTP users, do a print out of all of your fonts to save time when looking for a suitable one for your latest creation.



Last issue's covermounted *Real Time Effects Generator* is just the job for guitarists who want to add some spice to their sound.

82 DTP users (again), limit your pages to as few fonts as possible (preferably only two) to get a really professional look.

83 Hook your Amiga up to your stereo for some completely amazing sound.

84 Printer users, be ecologically sound by saving scrap paper to print draft copies.

85 Improve your social status by taking out a subscription to CU AMIGA.

86 DTP users, increase Amiga awareness by printing 'This page was created on an Amiga' at the bottom of every page.

87 Guitar players, use the Realtime Effects Generator (on last month's coverdisk) with a sampler to create some really neat sounds.

88 Modem users, save yourself time when logging on by creating a script for your Comms program.

89 Create a 'temporary' directory on your hard drive, reserved for files that can be deleted when you need some extra space.

90 Keep your disks away from magnetic fields, such as your monitor, TV, loud speakers and radios.

91 Use olive oil to lubricate your joystick (oeer missus), and extend its life a great deal.

92 Workbench 2 (or above) users, brighten up your display by using *Magic Workbench*, available from any good PD supplier (check this issue's).

93 Always remember, there is no such thing as too much memory, too fast a processor or too much hard drive space.

94 When buying peripherals, always make sure you are buying from a reputable dealer. See Andy Leaning's buyers' guides.

95 If you use shareware programs regularly, do pay the fee. Often, registered users get seriously preferential treatment.

96 Back up your hard disk regularly, you will certainly appreciate the effort if ever you get hard disk problems or decide to upgrade your machine.

97 If possible, keep back-ups with a friend or in a fire-proof metal safe or box. That way, if you should be unfortunate enough to have a fire, you will still have your most recent work available to you.

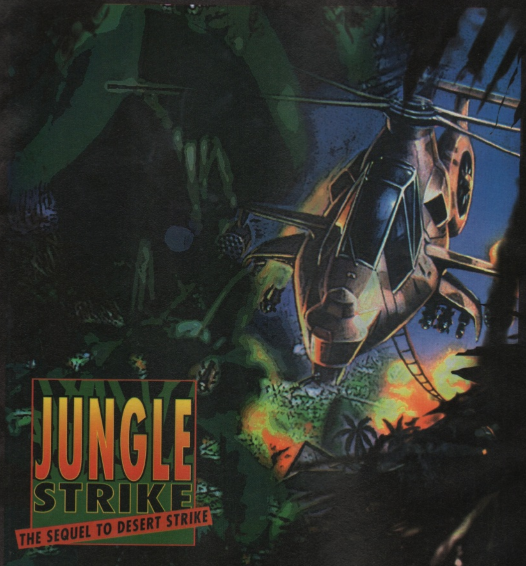
98 Avoid a sprawling sound samples directory by separating them into groups. For example, a directory for drums, basses, loops, vocals etc.

99 Paint program users, improve your technique by reading books on normal painting, such as those in your local library.

100

When sending correspondence done on a word processor always use good quality paper. Photocopier paper will often negate any good impressions you have created so far.

101 Make sure you buy the next issue of CU AMIGA, on the shelves from 19 November. Because the best tip of all is to keep reading this magazine. CU


JUNGLE
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Amiga
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A1200

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ocean

Lords of the Realm™

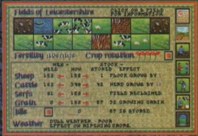
Side view North

Summer AD 1281

Do as you like with our mutual foes, but think long ere you try to steal my lands!

The Baron

Click right to exit.



Fields of Leicestershire

CLICK ON A FIELD FOR INFORMATION.

Fertility average

Crop rotation

	MEN - NEED	NOW	STOCK - STORED	EFFECT
Sheep	152 ←	158 →	1	FLOCK GROWS BY 1
Cattle	162 ←	349 →	92	HERD GROWS BY 18
Serfs	91 ←	158 →		FIELD RECLAIMED.
Grain	0 ←	158 →	57	32 GROWING GRAIN
Idle		0		57 IS STORED.

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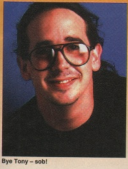
AMIGA CD

CD32 ZONE

The only place for news and reviews on the CD32

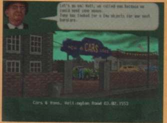
NEWS

Has it really been a year since I started editing the CD32 section of this fine magazine? You know, it's quite funny to look back and see just how far the CD32 has come in the last 12 months, from humble beginnings as a games console carrying A1200 conversions to something almost mirroring the PC CD-ROM world, with everything from clip art and similar resource libraries to talking adventures and movies on CD. A lot of it comes from the simple fact that the PC has defined what does and doesn't sell on CD, and therefore the CD32 market has had a trend to emulate, resulting in faster growth than anyone expected. Sadly this is my last month heading up this section, as I'm off to explore the joys of CD myself, but I promise you that twelve months from now, you'll have seen even faster progress than there has been so far.

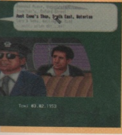

Bye Tony – sob!

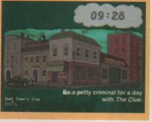
Tony Dillon
Games Editor

THE CLUE - CD32



We had it on a coverdisk a couple of months ago. We had the review in the same issue. We thought it was brilliant. Neo Software's *The Clue* is one of the most original adventure games to appear in recent years, giving you the chance to play a small time thief in post war London. Austrian's Neo are also about to go into the studio to record all the speech for the game for a CD32 version, which should feature the same glorious 256 colour screens of the PC version, plus other enhanced sound. For more information, call Black Legend on 0438 840003.





Be a petty criminal for a day with *The Clue*.

FMV GAMES FIRST

In previous issues of CU AMIGA we've frequently covered VideoCD (FMV) feature films, now however, games companies are starting to use VideoCD technology as well. *Cannon Fodder CD32* has a complete intro sequence recorded in this format and is, to our knowledge, the first CD32 game to mix FMV film with games.

Check out the Cannon Fodder review on page 42.

To see this intro sequence you'll need a CD32 with the FMV cartridge. When plugged in this allows the Commodore game console to play the increasing number of VideoCDs. The time taken for games developers to adopt VideoCD has come as a surprise to many, with most people not expecting software authors to adopt the format before early next year at the soonest.

On another FMV note, at the recent Live '94 show Sony showed a dedicated five disc VideoCD player, whilst Panasonic announced that they will shortly be releasing a Mini HiFi (called the VC10, priced at £800) that can play VideoCDs. So, VideoCD, whilst still new, is slowly taking off! But the CD32 is currently the lowest priced system on which you can watch VideoCDs.

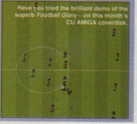
EVEN MORE CD MOVIES

Coming to a CD near you soon ...

As the collection of CD movies available for the CD32 grows, Philips have announced a whole host of new titles you can add to your collection. The first is the Tom Cruise sensation *The Firm*. Based on the book of the same name by John Grisham, the film tells the story of a young law graduate drawn into a very mysterious, yet very successful law firm, who not only decide what hours you work, but also just how you live your life. Other films include the classic *Apocalypse Now*, *Coming to America* and *Sliver*. These are available with a variety of age certificates, priced between £15-20. Available from HMV and other leading stockists.

CROTEAM CDS!

Croteam, the new Croatian based wing of Black Legend are about to launch into the CD32 market in the same spectacular way they have the floppy side of Amiga computing. The first CD titles to appear will be *Football Glory* and *Embryo*, with *Spherical Worlds*, a shoot 'em up along the lines of the classic *Gauntlet*, and all three should be available before this Christmas. It's not confirmed yet what enhancements will be made to the titles in the transition, but if the first two floppy games are anything to go by, it should be something special. For more information, call Black Legend on 0438 840003.


Have you tried the brilliant demo of the superb *Football Glory* – on this month's CU AMIGA coverdisk.

DIARY OF A GAME

PART 8

Well, here we are at the final instalment of the diary of Space Academy. John-Jones Steele is back and has been busy adding the final touches to the programming.

At the end of last month's article Dave was hammering away at getting all the rooms finished, having completed all the sprites required for the game. So I set about going through all 336 rooms of Building One and building the masks for the graphics clipping, along with the masks for the collision detection. Now, for the first time we could walk our hero around the complete building. However, as we walked him around we discovered a few areas we thought could be reached but actually had no means of access. A few quick flicks with the mouse from Dave and that problem was solved.

IMPROVEMENTS

The weeks of preparation for this are now game beginning to show fruit. While Dave ploughed on with the 240 rooms required for Building Two, I went through the detailed design lists, adding all the switches, doors and puzzles needed to turn *Space Academy* into the mega game we're all waiting for. There were a few places where the door switches could not be reached, but a bit of tweaking again solved all the problems. For the most part the puzzles also went in without any major changes.

We now had the first building complete except for the movements of the SAS men, so it was time to get some outside testing done. We roped in a few gaming friends to give us an idea of the difficulty level the game was at. Based on their reactions, we decided how many and how intelligent the SAS men should be. It had been decided at the beginning, that the first level would only have a small number of SAS men, to allow the player to get into the game. So, after the initial testing, it was decided that instead of a whole level with very little blasting action, we would only have a small section of level one that was relatively peaceful.

These SAS men have proven to be the biggest problem, trying to get it so that their aggression level is just right has taken more time than was expected. The main problem was that if the SAS trooper was hidden when you entered a room, by the time you had seen him, he had already blown your head off. This has been fixed! Now, on the lower levels, they are more of a nuisance than a threat but as you reach later levels they become more aggressive. However, hopefully by this stage you'll have enough experience to deal with them.

Another area that we finally addressed was the subject of nourishment. Dotted all over the building are vending machines that hold various items of food for our hero to eat. These need to be available whenever food is required, but not so often that there is little need for planning your actions to find them. (A big hint to CU AMIGA readers, each level has a certain room where the SAS men never go, this room, which Dave and I call the stash room, can be used to place things you find that you might need later, not only food but weapons and ammunition.) That's enough of the hints. Even more important than food, though, is drink – only the soft variety for our hero though. This can be found at water fountains, coffee machines and, of course, soft drinks machines.

REALISTIC SOUND

Next the sound effects were added. Sound should be a major part of every game, but is often only added as an afterthought. Dave and I had decided the type of effect we required for each action that needed one, and we made sure that they were appropriate to the action. Many of the effects I could find in the library of sounds I've built up over the years, but for some of them it required going out with the tape deck and wandering 'round the countryside, banging on steel wires, drums, water barrels and assorted animal feeding troughs until we had the exact sound we required. The music in the game has been written and produced by Mindscape in consultation with us and complements the game perfectly.

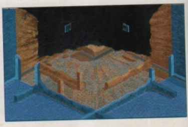
Space Academy is nearing completion now and as I type this, the testing department of Mindscape have their hands on the first building so we're await with baited breath their results.

In the meantime, we have finished the second building and all that is needed to complete the game is the final space ship level and the ray traced intro section.

Dave is now putting the final touches to the gags that are dotted throughout the game. These gags are throwaway items that make the game more enjoyable. They don't actually take part in the action, but they are great fun to think up and put in. This is one more thing that CD allows us to do. On floppy, we were always conscious of the space limitations, now we can add all sorts of interesting asides to a game.

Also, now that Dave has completed all the game graphics, he is concentrating on the box artwork and the in-box material. This will give a brief lead-in to the game in the form of a full colour comic and will, I'm sure, become a game playing collectors item, so look out for it. (*What a plug! – Ed*)

This is the final excerpt from the Stellar Genesis Agency Diary of the *Space Academy*. I hope you have enjoyed reading about the creation of our first game. Watch this space for news of the game's release. Until then feast your eyes on the screenshots.



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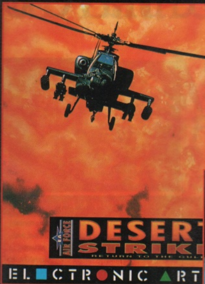

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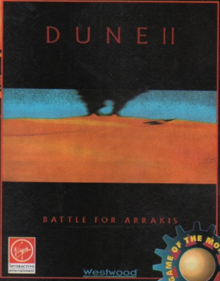

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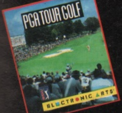

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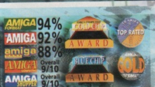
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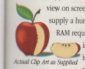

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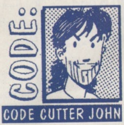


FLIGHT OF THE AMAZON QUEEN

ICONS:
SPACE CAPTAIN STEVE

Another talking adventure? Alan Dykes investigates the CD32 version of Renegade's long awaited South American saga.

Above left (and top left and right in cartoon form): Programmer John Passfield and graphic artist Steve Stamatiadis. Above right: The production crew and a top actor having fun. Call this work?

The development of games has been a bit like the history of cinema; first of all there were short, primitive films supported by dodgy music, then technology caught up and movie moguls were able to offer sound too. Then things went steadily downhill. Now games 'moguls' are falling head over heels offering sound, all because of the the CD medium. Talkies are all the rage on PC and there have been some very, very dodgy examples of soap opera voiceovers. Luckily the CD32 and the Amiga have been spared the worst, making do instead with *Simon The Sorcerer*'s above average, if a bit monotonous, verbal meanderings and a little chap from Vulcan software who looks up in wonder and exclaims '*it's a key*'.

Now we are about to have our airdrums assailed by a variety of American and European accents in what Interactive Binary Illusions, the Australian team behind *Flight* like to call 'a humourous adventure'. John Passfield its programmer and Steve Stamatiadis, the man responsible for graphics and animation are wildly enthusiastic about a game that's been in the making for nearly two years.

"We're part of a new generation, brought up on Star Wars and the Indiana Jones films ... we owe a lot to George Lucas and his generation for inspiration", said John. This has inevitably resulted in *Flight* becoming a large-scale production which started off on the Amiga, moved to PC and will make it back to Amiga and then CD32 in the next few months.

PENELOPE KEITH

Flight is set in South America, where the 'hero', Joe King (funny eh?) has to, er, solve a big mystery, chat with loads of dames, hustle evil professors (well, just one actually) and converse, fight even, with various oddballs. The really special thing about *Flight* though is the amount of vocal character interaction, there are over forty characters to speak to, with 14 actors used to portray them and – cue twilight zone music – some of them sound very familiar.

Penelope Keith is the last person you'd associate with an interactive game but although you're going to have to wait a while to hear her, she's in the game. There's also an American accent that may vaguely recognise, though unless someone told you who it was you'd never catch on. It's by a character actor called Bill Hootkins who had minor credits in *Star Wars* (he played Red Six in the attack on the death star and didn't last very long) and *Indiana Jones*. Other voices were supplied by Barry Jones, a classic English 'bad guy' actor, whose credits include *Batman Returns* and various other voiceover artists including a *Spitting Image* regular.

Add to this a soundtrack and special effects composed by Bitmap Brothers regular Richard Joseph who has aurally enhanced *The Chaos Engine* and *Ruff 'N' Tumble* among others and you get the idea: *Flight Of The Amazon Queen* sounds really good. But what does it look like?

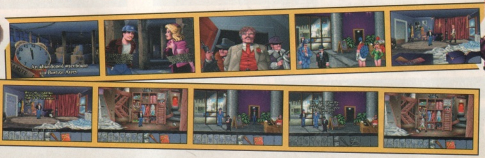
Right from the outset *Flight* has been designed on the Amiga. Illusions started out as a 'bedroom' development team, using A500s for both animation and programming. According to Steve Stamatiadis his setup was simple in the extreme – but very effective. "I used *DPaint*" said Steve. What else though? "Not much really", he elaborated, "I started on *DPaint 3*, then when *DPaint 4* was launched I used it". Go on, what else? "*VideoScape 3D* and a digitiser, a Digiview digitiser". And that's all? "That's about it, yes".

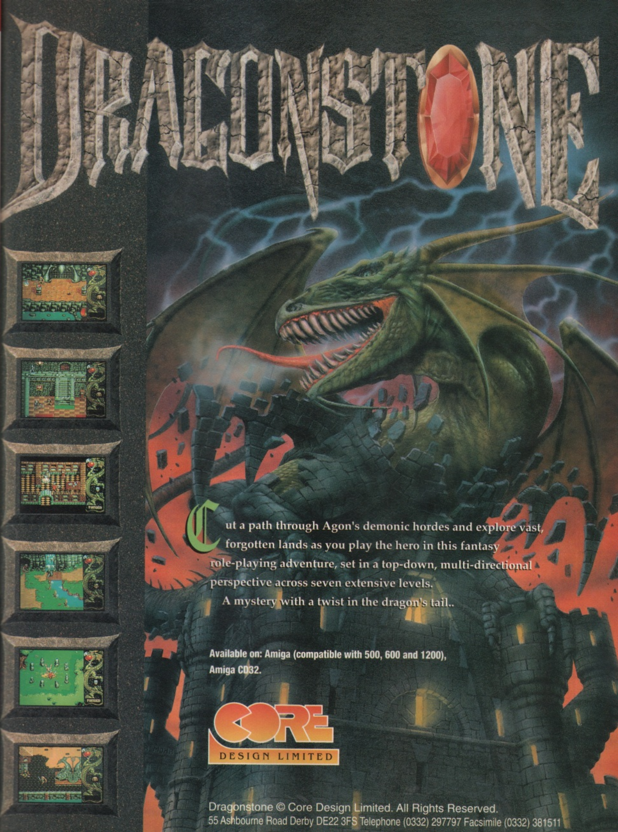
Having started on the A500 the game was designed from the outset to use 32 colours, even though it really does look as though there are more. Actually I tell a lie: there are more in the CD32 and A1200 versions, 64 to be precise. This, while not utilising the full capabilities of either machine, brings it up to PC VGA standards and looks just dandy if you ask me. By the later stages of development technology and funding had improved sufficiently for Illusions to employ a couple of accelerated, hard drive equipped A1200s, but throughout they have remained faithful to their origins.

SANTA CLAUS?

Where to now? Well *Flight* should be out just before Christmas provided it doesn't catch the dreaded software disease known as 'Slippage' (even the mention of this word sends publishers into exaggerated truama), in which case it will hit the shelves in January or February.

And what of Interactive Binary Illusions? Is there anything else on the horizon? John: "*Return Of The Amazon Queen* is a long way off, in fact we haven't even started it. We have another project in the pipeline though, but we can't say what it is at the moment". In the meantime they're putting the finishing touches to *Flight* and are settling down to write another instalment of 'Stereo Jack', a futuristic occasional comic strip they write for an Australian publication – could this hold the key to their next game? Keep an eye out for a review of *Flight* in the next couple of months.


An abandoned warehouse in Buenos Aires



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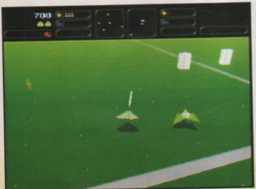
GUARDIAN

Acid Software have been very quiet since Skidmarks, but that doesn't mean they haven't been busy, as Tony Dillon discovers.

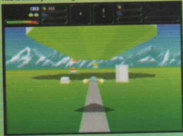


Mark Sibly is the man who is responsible for *Blitz Basic* and one of the most arcade perfect Amiga versions of *Defender* ever (well, several of them anyway). Almost a year ago, Mark Sibly came to London on a flying visit, and brought us a playable demo of his latest 3D shoot 'em up engine.

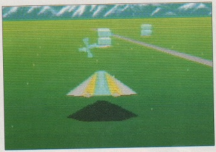
Essentially he had taken a look at *Starwing* on the Super Nintendo, a game that many magazines were raving about at the time, and realised that it wasn't doing anything that the Amiga wasn't capable of equalling, if not actually bettering hands down. The end result was a single level shoot em up called *Sibwing*. Then it all went quiet.

Suddenly, one day, completely out of the blue, a silver disk appeared on my desk with a single word on it – *Guardian*. Loading it up, I found it to be the completed *Sibwing*, gone through a few changes, sure, but even more playable and exciting than it ever promised to be. Acid Software are back, bigger and better than ever.

This is where you take flight from, mothership directly above.



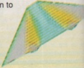
In a nutshell, *Guardian* is *Defender*. Mark has written over a hundred different versions of *Defender* in his time, so that's no surprise. What is nice is the ease in which he has taken such a simple game concept and translated it into a 3D extravaganza.



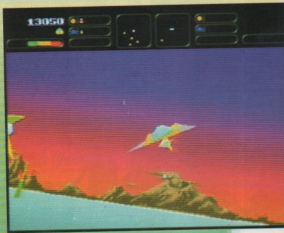
You are a lone pilot, patrolling a group of unnamed planets somewhere out in space. One day on a routine run the planet is invaded by alien craft, hell bent on destroying all the buildings and vegetation on the surface. What more is a lone pilot to do except get out there and take them out!

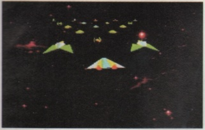
BANDITS AT ...

There are basically two different types of enemy craft attacking your planets. The first, and most deadly to you are all the fighter ships that materialise in random positions on the planet after being beamed down from the mothership which is loitering above the globe. These are only interested in taking you out, and will home in on your ship the moment they appear, with all guns blazing. There are dozens of different types that will appear, but all follow more or less the same pattern to begin with. Appear, fly around at high speed and then home in. The

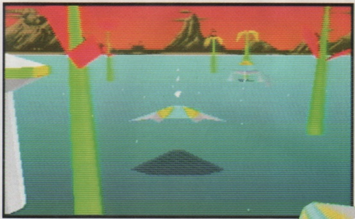


At the top of the screen there are maps which tell you exactly where you are and where the bombers are.





Another volley of ships boldly go etc.

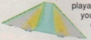


nice thing is that none of them are particularly intelligent, and they will fly into buildings and other obstacles while making a bee line for you.

BOMBER JACKETS

The second type of craft is almost completely harmless, but are the most important to destroy. The bombers, as they are called, are there to destroy all the buildings and installations on the planet, and systematically travel across the landscape raining destruction upon everything in sight. Your mission objective is clear. Stay alive long enough to take out the waves of bombers that appear, and then clean up all the fighters still alive. Once a certain number has been destroyed, it's off to a different part of the globe to save yet another civilisation.

After you've done this part a couple of times, you'll be told that a tractor beam is now operating. This is coming from the mothership. This scenario takes the place of the end of level guardian, pitting you against a whole host of smaller enemies instead of one large one. You are pulled from the planet surface inside the mothership, from which vantage point you can see all the exit ports where the fighters are coming from. Your job here is to take out every single port before the aliens start emerging, because once they do, you're in serious trouble.



BOUNCING JACKS

Some aliens drop special bonuses when shot, which look like enormous bouncing jacks. A bit of skillful flying is all it takes to scoop these things up, and they can be anything from a laser boost to a shield boost to even a tracking missile, which will lock on to the nearest bomber and blow it out of sky.

The only other weapons in your armoury are a double laser, which can fire two shots forward instead of one, and a limited supply of smart bombs. There isn't really a lot to choose from, sure, but then there wasn't much to choose from in *Defender*.

STARWING?

You can probably tell from the various screenshots dotted around this page that the game is based upon *Starwing*. The bright colours used on all the objects, plus the style of the other craft show pretty much where the game is coming from.

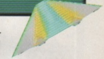
What this leads into, though, is a very strange viewing perspective. The game is viewed in the third person, ie behind your own ship, but you don't actually look directly along the craft. The height of your ship is variable, but the height of the camera isn't, so if you are skimming along the ground or flying as high as the game will allow, you are left looking down or up at yourself rather than forward, which limits your view somewhat. Oddly enough, this doesn't actually detract from the playability of the game once you get used to it. If you don't like the angle you are being viewed from, you can always move the camera position to suit you.

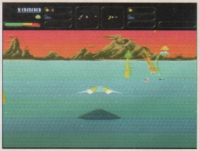
TARGET TROUBLE

One gripe with this system that some people had initially was that you had no real way of targeting your shots. Although you always fire forward, the height of your craft coupled with the yaw means that you can fire in all directions along the Y axis and judging where your bullets are going to go is an acquired skill rather than an intuitive one.

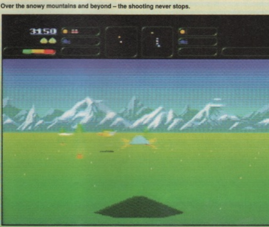
The controls are worked out extremely well, with the top two buttons on the controller moving your craft forward or back, the large red button is your cannon, the blue and yellow buttons handling missiles and smart bombs respectively while the green button lets you pull off quite a nifty 180 degree flip, enabling you to turn and fire at whatever happens to be chasing you.

Guardian is an unusual game, but wildly addictive and great fun to play. Extremely challenging, both mentally and physically, this is a game where you'll really work up a sweat. It might not be the smoothest or most original game in the world, but it's well worth having nonetheless. Is *Guardian* a fitting follow up to the great *Skidmarks*? Yes I definitely think so.





Over the snowy mountains and beyond – the shooting never stops.



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TEAM:	MARK SIBLY
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> *Not very original and difficult to master, but it's still great!*

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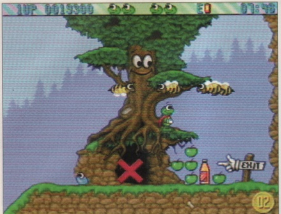

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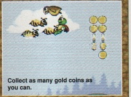
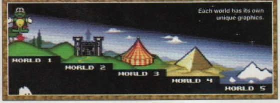
What ensues is one hell of a good platform game. Released at a time when the rest of the Amiga world was cloning *Super Mario Brothers*, *Superfrog* borrows more from *Sonic The Hedgehog* than anything else. Your objective is simple: run around the giant maze like levels collecting a set number of gold coins, avoiding dangerous objects and trying to find the exit as quickly as possible. As you move through the levels, they get bigger and more complicated, and there are more and more nasties out for your froggy blood.

It's a very well presented game, with intro and outro screens drawn by Eric Schwartz. Very smoothly animated, the game was an impressive feat on the A500, but I have to admit I did expect better on the CD32. There have been no enhancements made at all to the game, so what you have is essentially the A500 version – 32 colour graphics and *Protracker* music. OK, so it's still a very playable game, and the price is perfect, but I can't help wishing there was something more to it.

Tony Dillon

81%


Collect as many gold coins as you can.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CANNON FODDER

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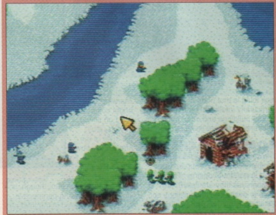
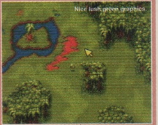


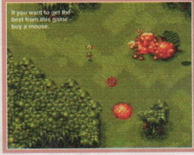
Tennis Elbow. Athlete's Foot. Tiddly-winker's Thumb. Er, Couch Potato's Bottom. All afflictions caused by repeated actions during play. And all pretty bad.

Played almost constantly over a number of days, certain types of computer game can cause similar injuries to the player. Two of the most popular examples are the *Sensi*-Joystick-Button Thumb (which I'm sure we've all experienced at some point or other), or the unique *Cannon-Fodder*-Mouse Hand. Stupidly long names I know, but it's what I like to call them (in the last five minutes since I made them up), and hardened players of either game will suffer cramp and other symptoms at some point. Probably.


Nice lush green graphics.

Alongside *Syndicate*, *Cannon Fodder* is the game which best makes use of the mouse for control. The pointer chases around the screen, and a swift left-button fires your weapons, while the right sends your crack troop squad into action, running strategically towards the bally Hun. In fact, it relies on the mouse to the point that you wonder how Sensible could ever have created it for joypad-lovers; and the general feeling, simply, is that they couldn't. Now that they have, that theory is proved right; because the joypad control is sluggish at best, and impossibly frustrating at worst.

So, now comes the time to slag it off. Right? Well ... no. What I'm going to do instead is recommend that you buy a mouse – yes, Sensible has left the mouse control routine in, thankfully. A mouse will only cost you £10 or so, and the sheer volume of enjoyment (if, indeed, you measure it in that way) you'll get from the two together will be huge. It's a war game, but it's also one of the finest arcade games ever – packed with people to shoot, inventive mantraps, and a nice line in interesting automobiles, which you can get in and drive.


If you want to get the best from this game – buy a mouse.

The CD32 version's been slow in coming, and although it doesn't offer any real improvements over the floppy game, it continues to hold its tin hat-topped head high above the competition. Buy it and find out just how much fun war is.

Andy Nuttall

90%

TFX

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Monday April 9
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round.
It wont ~~teel~~ tell me
the time.
Santa Claus gave a
gun to me
Let loose the puppies
of War
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"....BREATH TAKING...!"
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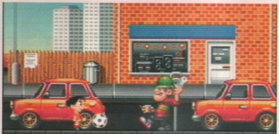
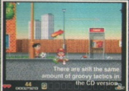


SOCCER KID

KRISALIS £29.99 OUT NOW

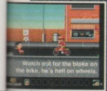
Soccer Kid is still regarded as one of the best platform games ever released on the Amiga. So much so that the exclusive level we once gave away on a coverdisk is still regarded as one of the best coverdisks ever. Lord knows it has taken long enough for Krisalis to release a CD32 version of the game, but finally they have. And bat me over the head with an Adidas trainer, it's just as much a stormer on the old shiny disk as it was on floppy. But for those of you who haven't seen it, here's a little recap ...

You play a small boy with a quest. The quest is to recover the world cup, which has been stolen by invading aliens. This boy is a keen football fanatic, indeed he needs to be to go up against the might of an entire alien race with only a football. Yes, you read correctly, right (if you don't believe me, go back and try again), this kid has only a football to help him get to victory. Mind you, he knows how to use it, and thankfully all it takes is one hit with a ball to destroy most aliens, so Kid can run from left to right in the standard platform way and punt the ball at anything he likes.



There are still the same amount of groovy tactics in the CD version.

One of the nicest things about the Amiga version was the control system. Although there are a hundred and one things that Kid can do with the ball (head it, juggle it and so on), you didn't have to go through a series of *Streetfighter 2* movements to get him to do it. The CD32 version is just as playable, and contains the same fantastic graphics as the A1200 version so what more could you ask for? Some decent CD music? You've got it.



Watch out for the bloke on the bike, he's hell on wheels.

If you only buy a couple of games this month, then this is definitely one to get. It's a good play and great fun.

Tony Dillon

91%

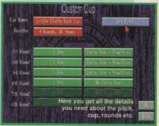
Soccer Kid relaxing at home after a hard day's work battling against aliens.

MANCHESTER UNITED PREMIER LEAGUE CHAMPIONS

KRISALIS £29.99 OUT NOW

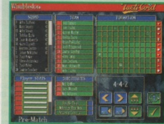
It's hard enough trying to review this game on a whole page, let alone half a page. After all, with a name the size of *Manchester United Premier League Champions*, how can you find room to actually say anything about the game? So from now on I won't actually mention the name, I'll just get on with telling you about it.

Take your basic, run-of-the-mill top view arcade soccer game, somewhere between *Football Glory* and *Sensible Soccer*. Now add a touch of managerial flair to it, throw in every type of league, cup and fixture group you can think of, and finally a large dollop of usable, logical tactics for good measure, and you've pretty much got this game in one.



Here you get all the details you need about the pitch, cup, rounds etc.

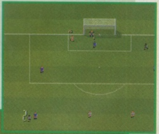
Essentially there are two parts to this game. The first is the tactical section, which I have to say is brilliant. You are presented with a little gizmo called a Tacti-Grid, which shows you the layout of your team. With this you can reposition players around the pitch as well as show them basically how to play (attacking, defensive, winger etc). Then you go into the second half of the game, which is a very playable arcade soccer setup, a la *Sensi*, and you can see how your tactics have worked. If they're failing, you can jump back out to the Tacti-Grid and try again. The nice thing about it all is that tactics really do make a difference. If you notice that your opponent always passes into the box, then you can pull the defenders back and he or she will always be foiled. Similarly, you can look for weaknesses in their defence and exploit them, and that's what makes this such a superb game.

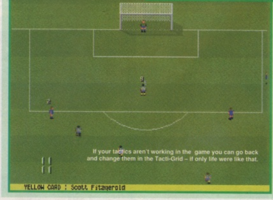


Forget the great presentation, or the dozens of photographs that appear throughout the CD version. It's the tactics and the gameplay that will make this one a clear winner.

Tony Dillon

89%





If your tactics aren't working in the game you can go back and change them in the Tacti-Grid – if only life were like that.

SCREEN SCENE

Shape up for Xmas by jiggling (ooer) about with this lot.

48 ALADDIN
49 CRYSTAL DRAGON
49 TACTICAL MANAGER ITALIA
52 ALIEN BREED TOWER ASSAULT
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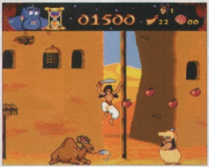
82 VAMPYRA

A CU Screen Star is for games scoring 85% - 92%. If a game gets one of these, it'll be one of lasting quality and you can rest assured that, if you decide to purchase it, you won't be wasting your money.

93% and a game's worth a Superstar. We hardly throw them around, but if a game gets one it'll be completely outstanding

FIRST

"First impressions make lasting impressions", so with that age-old proverb (no really) in mind cast your eye over this rather sumptuous feast of forthcoming releases.



ALADDIN

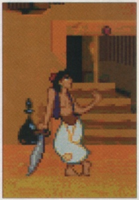
VIRGIN

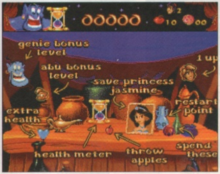
THE GAMEPLAY: You are Aladdin, the star of last year's Disney extravaganza, and have to travel through Arabia doing all the things that Aladdin does in a cartoon explosion of a platform game. When this was released on the Super Nintendo it was described as one of the slickest platform titles in history, with the best character animation ever seen. Disney cells were used in the construction of all the main sprites and backdrops, so the game looks just like a Disney animation!

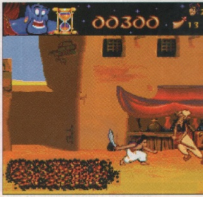
BEHIND THE SCENES: The Amiga version of the game is being coded in-house at Virgin Interactive Entertainment, who have recently snapped up a whole host of Disney titles, including the recent smash hit *The Lion King*.

WHAT'S NEW: The most incredible character animation we've ever seen. Forget *Flashback*, and put *Prince Of Persia* back on the shelf. The movement on Aladdin is every bit as good as you would expect from a Disney character, as he leaps, swings, hacks, slashes and generally runs about.

FIRST IMPRESSIONS: Extremely good. We've played a couple of finished levels, and it looks every bit as exciting as the Super Nintendo version. The animation is so good you could spend a couple of hours just marvelling at the character moving around. It may not offer a lot of new things as far as platform games go, but the the amazing graphics should make it one to really watch out for.



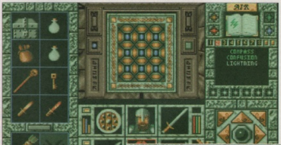




IMPRESSIONS

CRYSTAL DRAGON

BLACK LEGEND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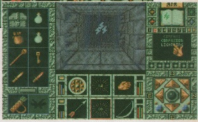
CONFUSION
LIGHTNING


COMPASS
CONFUSION
LIGHTNING

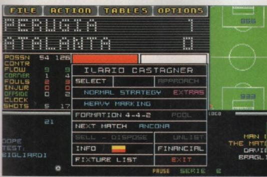
THE GAMEPLAY: Take *Dungeon Master*, and then multiply it by a hundred. *Crystal Dragon* is a warrior's tale of death, darkness and destruction in a series of caverns and labyrinths underneath a mountain. Like *Ishar 3*, you have to guide your party through the mazes fighting off bad guys, collecting items and using them with other items and generally behaving as you would in an adventure game. The playing window is quite small on the world, as you can tell from these screenshots, to make room for the dozens of icons that allow you to do just about anything you want.

BEHIND THE SCENES: The game is being coded in house by Magnetic Fields, that lovely bunch of people responsible for turning out such gems as *Lotus 1, 2* and *3* and *Supercars 1* and *2* for Gremlin Graphics, now Gremlin Interactive. It's a bit of a departure for the once racing-mad gang, but hopefully they'll be able to bring their expertise with sprite scaling to the graphic adventure genre.

WHAT'S NEW: The on screen interaction. In some locations there are buttons and panels on the walls and floor that can be activated by clicking on them, which makes for some very interesting puzzles. For example, the first door you come to has a series of buttons which must be pressed in the right order to make the door open. All you need to do is figure which buttons need to be pressed!

FIRST IMPRESSIONS: Not bad at all. This kind of game has always been popular, and with Magnetic Fields' fine reputation for taking a standard game idea and making something spectacular out of it, there's no reason at all why this won't be one of the best yet. Look out for a full review next issue!

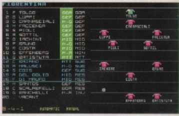
TACTICAL MANAGER ITALIA


FILE
ACTION
TABLES
OPTIONS
PERUGIA 1
ATALANTA 0
POSSN 54 126
CONTR
FLOW 9 9
CORNER 1 4
FOULS 2 3
INJUR 0 0
OFFSIDE 0 2
CLOCK
SHOTS 5 17
21
DOPE
TEST:
BIGLIARDI
ILARIO CASTAGNER
SELECT
APPROACH
NORMAL STRATEGY
EXTRAS
HEAVY MARKING
FORMATION 4-4-2
POOL
NEXT MATCH ANCONA
SELL - DISPOSE
UNLIST
INFO
FINANCIAL
FIXTURE LIST
EXIT
LOGO
MAN OF
THE MATCH
DAVID
BRAGLIA
PAUSE SERIE B

BLACK LEGEND

THE GAMEPLAY: *Tactical Manager Italia*, just like the original *Tactical Manager*, is a football management title where your aim is to take a team from the bottom of the lowest division, and create the ultimate line up, getting them from nothing at all to the top of the castle. You can buy and sell members of your team, of course. You can train them all, of course. You have a variety of tactics to play with, of course, and there are all the usual cups, competitions and challenges.

BEHIND THE SCENES: The whole thing has been coded and designed by Camy Maertens, the man behind the original *Tactical Manager*. This version is just one of a series of improved regional variants that he has been working on since the game came out. Incidentally, *Tactical Manager* itself has sold nearly 10,000 units so far.



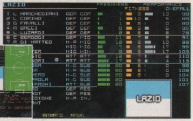
```
FIORENTINA
 1 F TOLDO        GOA GOA
 2 D LUPPI        DEF DEF
 3 D CARNASCIALI  M-D DEF
 4 M FACCENDA     DEF DEF
 5 S PIOLI        DEF DEF
 6 A SOTTIL       DEF DEF
 7 G IACHINI      MID MID
 8 P BRUNO        M-D MID
 9 R COSTA        MID MID
10 S EFFENBERG    M-A WIN
11 G BATISTUTA    ATT ATT
12 C BAIANO       ATT SUB
13 M MALUSCI      M-D SUB
14 S COIS         DEF SUB
15 A DEL DOLIO    MID RES
16 F DI MAURO     MID RES
17 M SANTOS       DEF RES
18 C SCALABRELLI  GOA RES
19 G BANCHELLI    M-A INJ
20 . VACANT
3-4-1     AUTOMATIC  MANUAL
```

TOLDO
CARNASCIALI
LUPPI
FACCENDA
PIOLI
SOTTIL
IACHINI
BRUNO
COSTA
EFFENBERG
BATISTUTA

WHAT'S NEW: A fair bit. Obviously all the leagues and cups have been changed to the Italian versions. The game has been made more difficult as well, as some people found the original too easy. In the Italian league, however, you are only allowed to transfer players before the season. Camy has changed that to allow you to transfer throughout the game, as it makes for a more exciting game!

FIRST IMPRESSIONS: The English version of *Tactical Manager* was superb, as anyone who played our coverdisk demo will testify, and any improvements to that can only push it further up the ladder. We'll review *Tactical Manager Italia* soon, but until then it's a certified thing that if you enjoyed the first one, you'll enjoy this one.

ACTION
TABLES
OPTIONS
JUVENTUS 1
LAZIO 2
GOAL KICK
JUVENTUS
LAZIO



```
LAZIO                 FRESHNESS      PERFORMANCE
                            FITNESS        OVERALL
1 L MARCHEGIANI  GOA GOA   7   9  13   98
2 L CORINO       DEF DEF   1  10   5   89
3 G FAVALLI      DEF DEF   1   6   0   80
4 R BACCI        DEF DEF   8   9   6   95
5 L LUZARDI      DEF DEF   2   8   8   79
6 C BERGODI      DEF MID  11   7   6   94
7 R DI MATTEO    M-A MID  12   9  10   99
                 MID MID   7   6  17   95
    TER          MID WIN   8   9  17  103
    SIC          ATT ATT  18   7   2  110
    DORI         ATT ATT  17   8   4  113
    OSA          M-D SUB  20   8   0   98
    IR           M-A SUB  20   9   0  108
    ERO          M-D SUB  20   8   0  104
    PAOLA        M-D SUB  20          101
    FRAGHI       ATT SUB  20          107
    O            DEF RES
    OT           DEF RES
    CDIONE       M-A INJ
    ANT
          AUTOMATIC  MANUAL
```

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Megalosound

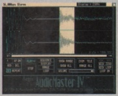
Megalosound is the new 8-bit, stereo, direct-to-disk sampler package; the software is packed full of easy-to-use editing features, special effects and extras such as the ability to print waveforms and sample information.

The package allows sampling up to 84KHz mono and 56KHz stereo to memory and up to 21KHz stereo to hard disk on an A1200. Supplied with a hardware volume control and an extensive 144-page manual, Megalosound is impressive value and Gold-rated by CU Amiga, with 89% from everybody's favourite magazine, Amiga Format!

ProMIDI Interface

The ideal MIDI interface for all Amigas, this smart-looking device comes with MIDI in, MIDI thru and two MIDI out ports and is complete with manual, software and a flying cable for convenient positioning.

AudioMaster IV



AudioMaster IV is regarded as the de-facto standard in sound sampling and editing software. With its incredible range of features and clear, informative displays, it is hard to beat as a sound editing system.

AudioMaster IVis compatible with Megalosound and any other sound sampling hardware that connects through the Amiga's parallel port. Please call for further information.

Graphic Design

VistaLite 3.0

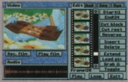
Create stunning landscapes with this amazing 3D simulation program. Supports HAM8 and 256 colour mode and requires 2Mb of RAM and Workbench 2.0 or above. A simply superb product from Virtual Reality Labs!

Distant Suns 5.0

Be the star of your own trek through space! Animate the solar system, view the same night sky as the 3 wise men and navigate by the stars with this 3D Desktop Planetarium. Requires 2Mb RAM and Workbench 2.04 or greater.

Video/Presentation

VideoMaster



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VideoMaster AGA works on the A1200 and A600, connects via the PCMCIA slot for extra speed and freedom to use other peripherals, allows high quality stereo sound and supports HAM6 and HAM8 up to 640 x 512 resolution for stills.

ColourMaster

ColourMaster is a new electronic colour splitter which works in conjunction with VideoMaster for stunning colour stills.

VideoStage Pro

Spectacular video and on-screen interactive productions are easily created with this brand-new release from Oxxi. Shows can incorporate text, graphic objects, animated sequences and sound.

The *Storyboard* features icons for insertion of show events such as graphic images, title screens, sound events, ARexx calls, genlock events and play loop events; a *Timeline* allows different tracks for each of these.

Videostage Pro supports the concept of *Actors* allowing animation of any drawn object, button or brush and actors may be overlapped in their motion so that multiple objects move at the same time, for smoothness.

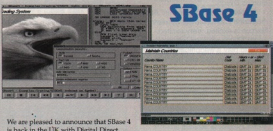
The *Genlock* control supports G-Lock and SuperGen genlocks as well as all generic Amiga genlock controls. *Sound* support for 8SVX samples and NoiseTracker, ProTracker and SoundTracker music modules.

Over 60 built-in dazzling *Special Effects* with wipes, fades, scrolls, cross-fades etc.

Videostage Pro requires an Amiga with a hard disk and 3Mb RAM (at least 1Mb chip RAM). AmigaDOS 2.0 or higher.

Business Applications

SBase 4



We are pleased to announce that SBase 4 is back in the UK with Digital Direct. SBase 4 Personal and SBase 4 Professional are up to version 1.3n now and we have both in stock, ready for immediate despatch.

These products are renowned for their power and their range of features and have been available on the Amiga platform for many years in earlier versions. Now they have both been brought right up-to-date with support for the very latest Amiga computers.

Both SBase Personal and Professional are full-featured, fully relational and powerful databases with pull-down menus, multiple windows and complete access to your Amiga's multi-tasking environment and they are now compatible with AmigaDOS 3.0 and the AGA chip set.

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Tower Assault: The dark level.

TEAM 17

It's cold up north, so most folk spend their time indoors programming, rendering, lifting weights and drinking coffee. Alan Dykes investigates.

Team 17, often referred to by our very own Lisa Collins as East 17, are anything but a crowd of spotty East Londoners wearing baggy trousers and directing low flying aircraft to their death with ridiculous homeboy hand movements. They're a bunch of fine northern lads who only wear baggy trousers on Sundays and direct most of their hand movements towards Amiga keyboards to produce rather good software. And then there's Marcus Dyson.

Erstwhile editor of 'another' Amiga magazine and Italian car fancier, Marcus is excited. Very excited. Team 17 has afforded him the opportunity to play a wagonload of games before anyone else and he's not at all smug about it.

Marcus' day goes something like this: Early morning exercise consists of diving into the pool, *Arcade Pool* on CD32 to be precise. Two hours of this is usually enough before tackling *Tower Assault* ... spending some time ironing out their most important Christmas product. Early afternoon sees him pootling around a suspiciously familiar looking game – it's *Zelda*, ('no! don't say that, it's not *Zelda*' – claims Alan Bunker, PR man) or rather Team 17s interpretation of the game entitled *Witchwood*.

Not much later the strain of a tough day is beginning to tell; Marcus is taking out all his pent up frustration on the environmentally friendly tracks of *ATR, All Terrain Racing*, the Team's latest, and if all goes according to plan, greatest racing title. By mid afternoon he's staring wide eyed down an alley attempting not to strike

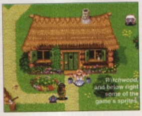
ALIEN BREED
TOWER ASSAULT

out again with an early version of the 10-pin bowling game *King Pin*.

Finally, by the time the bells of Wakefield cathedral announce that it's 5 0'clock he's prowling the streets of a strange and foreign land calling himself the *King Of Thieves* and trying not to think of how another super day in the office is going to end soon – but not yet. While the rest of us are going home to hot dinners and *Brookside* the lads at Team 17 lock up the doors, close the shutters, turn out the lights and play secret games that won't be announced until next year. And you wonder why he's left magazines to work for them?

A DIFFERENT BREED

Team 17's release line-up is pretty hectic during this winter and next spring. They've just launched *Super Stardust* (reviewed this issue) and are planning a spectacular multimedia launch of *Tower Assault* for October/November. For those in the know this is not actually *Alien Breed 2 part 2* or *Alien Breed 2 Tower Assault* or anything with a *2* in it as most other magazines have reported. It's simply *Alien Breed* (for that is the name of the series) *Tower Assault* (that being the name of this particular instalment). But what's so special about it? Isn't this just a cynical re-hash of the old games, purely for profit?



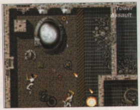
Witchwood, and below right some of the game's sprites.

Marcus Dyson: "The first Alien Breed had a lot of atmosphere, the second one was an all out blast and, I think, lost some of that atmospheric feel". What was initially just going to be a re-mix [of the first two games] has taken on a life of its own, becoming a totally new game."

But what makes this one so special? "The new features, the dark levels and particularly the multiple exits." The previous games were good, but they were very predictable, very straightforward. When you finished one level you knew which level would come up next."

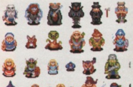
These features are distinctly new to *Tower Assault*. The dark levels involve your players moving around, unsurprisingly, in the dark, using torches to seek out objects where the only other lights visible are the cold luminous blue eyes of the Breed. The retreat feature allows you to move backwards while firing and the multiple exits, as opposed to the linear design of the first two games in the series, allow you to finish *Tower Assault* in over 270 ways.

The whole game has been overhauled graphically to add even more atmosphere than the first two. Apart from the dark levels minor touches like dead bodies lying around in pools of blood make the game more gruesome than ever and this has resulted in *Tower Assault* getting a 15 certificate under the new ELSPA software rating guidelines. According to Alan Bunker, although this rating is purely at software houses' discretion in the UK, it is a legal requirement in Germany where they are much more sensitive about violent images.



Tower Assault.

The other spectacular feature of the game is going to be an incredible animated mini movie. On the CD32 version this will include over ten minutes of *Lightwave* rendered footage including an intro, some inter-scene cuts and, for those who eventually succeed in destroying the tower a three to four minute end sequence which will make it all worth while.



The CD32 version will also include *Alien Breed 2*, which has not been previously released on this format. Amiga versions will cost £19.99 and CD32 disks £29.99. Both should be out between the end of October and mid November so we hope to have a review next month.

NEW YEAR

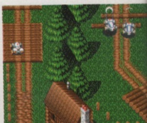
Between Christmas and Easter of next year Team 17 intend to launch three more full price products and the next in their range of 'Arcade' software. Late January should see the release of *All Terrain Racing*, a product that's been a while in the making, but looks like being well worth it.

ATR is a one or two player overland racing game with an oblique overhead view. The cars (of which there are a choice of three) are big, there are 36 circuits and the terrain includes forests, islands and an 'industrial' scenario. Power ups can be collected, cars bumped off the road and sneaky shortcuts taken. The work in progress version I played was impressively fast too.

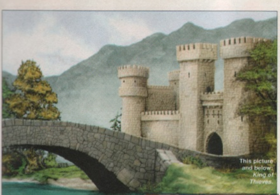
They are also very excited about *King Of Thieves* which has evolved from being very arcade-ish to incorporating a high strategy element. Essentially it's intended to be like *Risk* on Amiga, the main task being to conquer all of Britain using deceit, skulduggery and hand to hand combat. The graphics are quite detailed and adventure orientated as opposed to cartoon/arcade orientated, see the screenshots for examples.

I was very naughty mentioning *Zelda* earlier on. *Witchwood* is clearly not *Zelda*, after all it has a different name and, er, different graphics.

It has a massive scrolling map, rather like *The Chaos Engine* or *Dragonstone*, but not quite like them, because there's much more nipping



All Terrain Racing.


This picture and below: *King of Thieves*.

into cottages for tea and the like. Make no mistake, this is not intended to be an Arcade shoot 'em up, it's a graphic adventure through and through, with speech bubbles and character interaction, even though it doesn't look quite like what we're used to.

With *King Pin*, the latest in the 'Arcade' series, and a follow on from *Pool*, due out early in the new year (it should have been out sooner but suffered programming setbacks), Team 17 are fully committed to the Amiga in the early part of 1995. But what of next Christmas? Marcus Dyson: "I think we already know that we will have an incredibly good Amiga product for next Christmas. Beyond that we have other developments, but that's all I can say at the moment". Go on, tell us more! "No!". Bribery wouldn't work either.

KINGPIN
BOWLING
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KINGPIN
BOWLING
FRAME 05
MARTYN 48
MARCUS 84
MICK 05
PAUL 80
ANDY 52
KATRINA 15
BALL
12 lbs
POWER

IN TOTAL RAPTOR

Have you ever seen a grown man cry at the sight of a piece of computer kit? Well, Team 17 have a Raptor, a nice American black box that makes rendering faster and easier than making toast. Which is quite apt because it was designed to speed up the work of those using the VideoToaster.

And Andy Leaning cried. He cried because it was extremely expensive and he is never likely to own one. He cried when John Allardice, Team 17's rendermeister showed him the intro to *Tower Assault* which has used Lightwave combined with the Raptor to produce over ten minutes of incredible action and he cried when he realised it had the processing power of about 30 A4000 040s.

The Raptor combined with *Lightwave* and an A4000 was chosen by Team 17 instead of Silicon Graphics machines and it looks as though more companies might soon be making the same decision. OK, it's stupidly expensive (we're talking five figure sums here) but well worth it; overnight rendering has been cut down to hours while hours rendering have been cut down to minutes. Andy will no doubt be raving about it in the next couple of issues, so I'd better not say any more.

John Allardice: What he can do with a Raptor is frightening.

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002	INDIAN INST	Sitars, Bansuri, Chants etc (19)
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006	EUROPEAN	Balalaika, Choirs, Bodhran etc (34)
007	OCEANIA	Didjeridu, Chants, Slit Drum etc (23)
008	AMERICAS	Kena, Berimbau, Pan Pipes etc (30)
009	FX PERC	Power Toms, Snares & Bass, Scratch/Rap (88)
010	DRUM KIT	Bass & Snares, Hi-Hats, Cymbals & Toms (63)
011	ANALOG PERC	TR-808, CR-78, Loops etc (64)
012	LATIN PERC	Timbales, Congas, Cabasas, Cowbells etc (107)
013	GUITARS	Acoustic, Electric & Distorted etc (41)
014	BASS GUITARS	Slap, Picked, Fretless, FX etc (44)
015	ANALOG BASS	Oberheim, Roland, Korg etc (22)
016	DIGITAL BASS	Yamaha DX, Roland,Korg etc (28)
017	BRASS	Sections, Saxes, Trumpets etc (24)
018	SYNTH BRASS	Analog, Digital & L.A. etc (18)
019	PIANOS	Octave Splits, with strings, FX (16)
020	STRINGS	Cello, Orch. Hits, Sections etc (21)
021	SYNTH STRINGS	Analog & Digital (19)
022	CHOIRS	Mixed Choirs, with Bells & Synth (16)
023	ORGANS	Church & Electric (17)
024	BELLS	Real & Synth with Choir & Strings (20)
025	SOUND FX	Action: Explosions, Gunshots etc (30)
026	FX PERC LOOPS	Up-tempo effected rhythms (14)
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030	TECHNO 2	More of the above! (16)
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Impressions look like they're on a roll, or so Tony Dillon thinks as he takes a first look at their new feud simulation.

LORDS OF THE REALM

For many years Impressions has laboured to come up with the perfect strategy game. The brief is clear; it has to be detailed and complex enough to appeal to the armies of wargamers out there. Those who want to control everything from the movement of a group of tanks to the number of times Private Winchester picks his nose on nightwatch. Yet it has to be logical and accessible enough to appeal to the wider audience, avoiding large screens of text as much as possible.

NOW SEE THIS

Detroit bore the fruit of many years experimentation and its simple graphic interface worked perfectly – the amount of control you were given was just right. Impressions had got the formula right at last. Turning towards traditional adventure fare once again, designers David Lester and Chris Foster have been working day and night on their next release, which looks like it could be a bit of a stonker.

It's already been a huge success on the PC, so I can describe the game in present tense quite easily. Take a map of England and divide it up into a dozen territories, just like *Defender Of The Crown*. Now set a number of computer and human players onto the map, and give them a territory each. The aim is to pillage and conquer until the entire map is under your control. This you do by raising armies, sieging castles, going to war and engaging in more mundane tasks like crop rotation. So it's fairly similar to the age old *Defender Of The Crown*, but the plot is where the similarity ends.

For a start, the game is considerably more complicated than that. For example, let's take a look at farming:

You have to do everything that farming entails, from simple things like paying the workforce to more complex things like crop rotation and stock control.

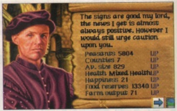
You also need to be very careful about which crops you grow, as the only real way to generate wealth in the game is by trading in crops. Your workforce and populace need to be looked after carefully and paid well or when the time comes for war and you need to raise an army, they won't come to you with open arms.

SMOKIN'!

Once you reach the combat stage of the game, everything changes. All battles will be played out in real time, with the player acting as a general at war, guiding the troops but not actually entering the battle themselves. One of the nicest things about the game is that it includes the world's first siege simulation, where you can siege another castle for months at a time, trying to smoke out the current residents.

The Amiga version of the game should be more or less identical to the PC version if programmer Tony Hosier has his way. No stranger to Amiga conversions, Tony is the man responsible for *Tornado* and *Detroit*, to name but two, and is confident that the A1200 version will be virtually the same as the 256 colour PC version, bar some of the larger animations. These won't be included simply because of the number of disks they will take up. The intro animation on the PC version is over a 1Mb, and somehow it just doesn't seem worth putting another two disks in the box so that you have something to click through.

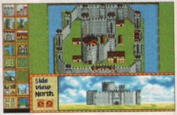
The game is almost complete at the moment, and I have to say that it looks like a hell of a lot of fun to play. This could be the perfect follow up to *Detroit*. *Lords Of The Realm* will be released Mid November, on all Amigas, for the reasonable price of £34.99, and we'll have a full review next issue so watch this space.



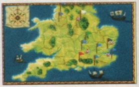
The signs are good my lord, the news I get is almost always positive. However I would still urge caution upon you.

Peasants 5804 UP
Counties 7 UP
Av. size 829 UP
Health Mixed Health UP
Happiness 21 UP
Food reserves 13340 UP
Farm output 71 UP

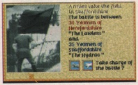
Here's a handy list informing you of the current state of your affairs – glad to see happiness is up.



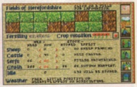
An Englishman's home is his castle and you couldn't have picked a better one in this game.

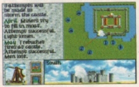


The plot so far ... take a map of England and divide up into dozen territories.



Armies take the field in Staffordshire
The battle is between
30 Yeomen of Herefordshire
"The Lawless"
and
35 Yeomen of Staffordshire
"The Hydras"
Take charge of the battle ?





8 attempts will be made to storm the castle.
April Miners try to fill in moat.
Attempt successful.
Light losses.
May Trebuchet fires at castle.
Attempt successful.
Men lost.

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"Putty Squad......
is Bloody
Brilliant"

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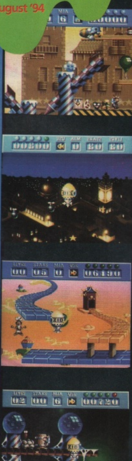

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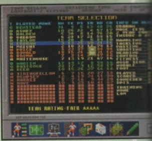
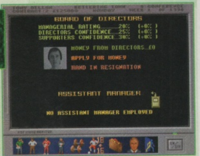
SYSTEM 3

PREMIER MANAGER 3



Gremlin have been working secretly on yet another football management title. Tony Dillon wonders whether this game will outshine the rest.



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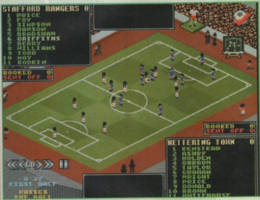


Gremlin's programmers almost got it right with the original *Premier Manager* – but to clear any outstanding business up they asked the public what else they wanted. The result was a management title with more options and which allowed you to do much more than any other management game ever had: *Premier Manager 2*.

Not one to rest on these laurels Gremlin Interactive's (as they are now known) top football geezers have gone back to the drawing board and asked Joe public once again to come up with even more ideas to add to the formula. The result, *Premier Manager 3*, is almost ready.

FANCY FOOTWORK

At the time of writing, the game is about a month from completion, and is already quite playable. Sitting down with Gremlin PR man Steve McKevitt for an afternoon, we took a good look at the new features added to the system, and I have to admit that the game looks superb. Most of the original *Premier Manager 2* system is still in there, but they've added a hell of a lot to the game, particularly in the tactics section, which has now been rewritten beyond recognition.

All the players now have extended statistics, giving you a far more informed choice over who to place in your team, even down to the foot they kick best with so that you know which side of the pitch to place them. Keeping with current trends, though, you can also decide where the players will actually play on the pitch at any given point in the game, giving you complete control over how the game progresses.

To do this, the pitch is broken up into 12 zones, and you can define the layout of your players when the ball is in each zone. This way, if you want all the players to rush up the left wing in single file when the ball is in the opponent's goalmouth (you never know, you might want to!), you can.

All this extra tactical palaver means a lot more work for the player however, and not everyone wants to perform all the options before a match. After all, it's hard enough figuring out where your striker should run from without worrying about negotiating player salaries or booking advertising. With that in mind, Gremlin have come up with a football management first – you can hire a deputy manager.

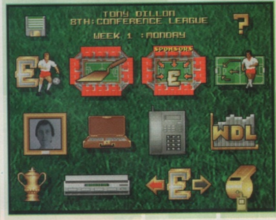
Traditionally soccer management titles let you hire scouts and trainers, but for the first time ever you can take someone on, and then let them do part of your job.

Obviously there are dozens of applicants, and the characteristics of each decide who is going to be able to do what. A particularly stupid deputy should only be allowed to book the stand advertising, whereas a bright one can handle just about anything.

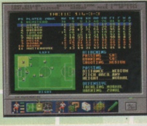
SHOCK TACTICS

The only other major graphic difference is the way the match is displayed. The pitch is viewed isometrically, and as the minutes tick by the positions of the players on the field are displayed. This should give you some idea of where the weak spots in your game are, and allow you to tailor your team to the point where you are more or less invincible, apparently. However, life never works out that easily, so be prepared for some shocks.

Premier Manager 3 will be released at the end of next month, and we'll have a full review next issue.



TONY DILLON
8TH:CONFERENCE LEAGUE
WEEK 1 :MONDAY



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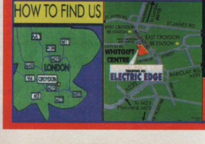

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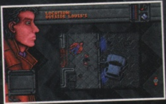
DREAMWEB

AMIGA
SCREEN STAR

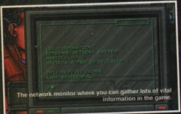
Dreamweb – Empire's adult adventure has been whipping up a storm of controversy with tales of sex, drugs and violence. Lisa Collins is used to that sort of thing so ...



A man thinks he is slowly going insane. He starts to keep a diary, noting down all the strange things that are beginning to happen to him while he sleeps. Sex with strangers, murder, dodgy dealings and evil forces abound, his rantings become more and more erratic as he is sucked further into the Dreamweb. This disturbing tome is the key to getting into *Dreamweb* – Empire's first adult adventure.

The Dreamweb, a sort of collective consciousness made up of good and evil, controls a city that's set in a sort of future world. Unfortunately, evil is gaining the upper hand and has taken control of seven people. The keepers of the Dreamweb have decided to fight back and have chosen you – Ryan – to kill these seven baddies and hence restore the natural equilibrium.

And so the scene is set for a rather good adventure. You control Ryan and must guide him through this top-view game, picking off the seven evil ones and executing them in (and this is essential) the right order – going back to the keeper after each execution to find out who to track down next. Sounds simple enough, but it isn't. You have to logically work your way through the game, by hunting around and visiting various locations, to gather all the information and items that you need. Just to complicate things even further there is a network which you can log into once you've found the password and the right cartridge, to glean various bits of extra information that will help you through the game.

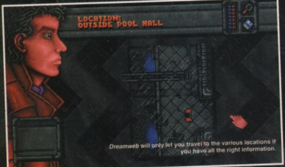


The network monitor where you can gather lots of vital information in the game.

GOOD GAMEPLAY

A lot of time has been spent on the gameplay and it shows; *Dreamweb* is very easy to get into. The point and click interface means that all you have to do is drag the pointer over to the item you wish to examine and you can then decide to either use it now or stash it away in your inventory for a later stage. All of the various locations in the game host a plethora of items which have been lovingly crafted with intricate detail, right down to a fridge which is stocked up with orange juice, milk and butter. Not all the items are necessary, but then again that's the fun of the game – finding out exactly what you need.

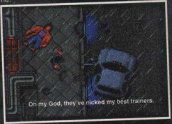
Dreamweb is linear which means it will not let you progress unless you have all the information or items you need. A message like: 'Maybe I've forgotten something' will flash up and send you scurrying back to where you came from to make sure you have everything. There is also a lot of humour dotted throughout the game. For example, there is some interesting interaction with dodgy looking types in bars who tell you to shove off (or words a bit less polite than that), if you are bothering them.



Dreamweb will only let you travel to the various locations if you have all the right information.

TINY SPRITES

The graphics in *Dreamweb* are good and contribute to the dark, moody and atmospheric feel of the game. However, the actual window that the game is played in only takes up a minute portion of the screen so the sprites and items themselves are unnecessarily tiny. Thankfully there is a zoom option but the game would have been much more enjoyable (but no doubt slower) had this window been bigger.



Oh my God, they've nicked my best trainers.

SEX, DRUGS AND MURDER

In all *Dreamweb* is a very enjoyable graphic adventure. It has been rated 18 due to its 'adult' nature though. However, the infamous sex scene involving the rock star David Crane (one of the evil ones) having it off with a groupie is merely laughable because the sprites are so tiny you can hardly tell what sex they are, let alone see any action. Another reason for the 18 rating is due to the graphic nature of the killings. One of the 'victims' is seen dragging her entrails along the ground pleading for her life. Perhaps this is the most chilling aspect of *Dreamweb* – it all seems so very realistic. Some might argue that there is a slight difference between blasting away mindlessly at cartoon mutants in a shoot 'em up and actually premeditating and carrying out serial executions!

However, whatever your moral stance, if all you are interested in is a good involving graphic adventure, and you are over 18 *Dreamweb* is the game for you. CU

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HARD DISK INSTALLABLE:	YES
MEMORY:	1Mb

GRAPHICS	75%
SOUND	70%
LASTABILITY	78%
PLAYABILITY	90%

> A good brain teaser but too violent for some.

OVERALL 86%

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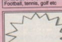

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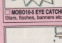

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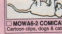

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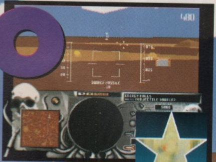
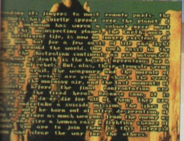
EMBRYO



The world's simplest flight sim? Or the world's most convincing shoot 'em up? Tony Dillon can't decide, but then that's nothing new.



ing its fingers to most remote parts, the
s has quietly spread over the planet. A
unknown has woven a cobweb over most
this unsuspecting planet. The Earth, once a
intelligent life, is now no longer existent. All
but for a few oasis of life and light
around the world. One such oasis in the
the Australian continent, as yet untouched
of death, is the base of operations for a
of rebels. But, alas, their struggle seems
no avail. The weaponry and the morale of
warriors are growing short. The scent
in the morning air, and the last moments of
before the final confrontation are
by the tired heros. Because soon, it is
be a do-or-die for all of them. They are
to undertake a suicide mission, the likes of
only be born out of utter desperation, of
capture as much weapons from the enemy as
and give a human race a fighting chance of
You are to join them in this intrepid
and clear the way for the others.

Croteam are a brand new part of Black Legend, and *Embryo* is their second release (after the superb *Football Glory*, as seen on our coverdisk this month alongside the review on page 66).

Embryo is a strange game to place. It's perhaps best to look at it as a very simple, mouse-controlled flight simulator. You are dropped in a warzone in an unusual craft that can fly at very high speeds, is amazingly manoeuvrable, can fly backwards and hover, and just about anything else you could ever want a combat aircraft to do. On board this mystery hi-tech vehicle are all the weapons you could ever use, ranging from central and side-mounted cannons, guided and unguided missiles and an interesting one that goes by the name of energy balls and fires what I can only describe as 'blobs' at the enemy. They might look silly, but believe you me they can do a lot of damage.

The reason for all this hardware is very simple. Your green and pleasant land has been taken over by an invading force and you are the only one with the skills to go in alone and take out every last unit of enemy infantry. To aid you in your quest is a map, which shows you the main enemy base in the current mission area, and a radar which alerts you if you're having the stuffing shot out of you by an airborne assailant or one on terra firma, and whereabouts in the surrounding area you'll find them.

PLAYABLE?

Each mission is more or less the same. At the start you are shown a very attractive photograph of the area you're going into, and a text description of the kind of thing to look out for as you're out there wreaking havoc. Click past that, and you go into the main game itself, already airborne (for some reason, it's impossible for your craft to touch the ground, so landing and taking off are all done behind the scenes) and from this point on, you have to find as much as possible to kill, and kill it!

The game is very playable indeed. Although you have the choice of playing with mouse, keys or joystick, the game actually works best using the mouse, with a similar control method to Core's *Thunderhawk*. Moving the mouse left or right banks the plane, while forward and back 'yaw' the craft – moving its nose up and down. Clicking the right mouse button selects a weapon, and clicking the left fires it. If you hold down the right mouse button, then slide the mouse forward or back the motion sets the throttle.

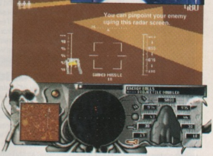
Such an intuitive control method means that you can concentrate on playing what gets to be a very hectic and tricky game, without worrying about dodgy joysticks.

GRAPHICS

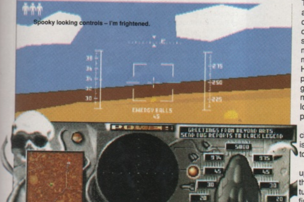
The game graphics are fairly basic as far as polygons go, but this is only because Croteam have concentrated on getting the game speed right, rather than making the mountains look pretty. And believe me it does run fast. With a full 50 Hertz update on an A1200 and pretty close to that on an A500, the game is very smooth indeed, and to my mind this makes the game look a lot better than a more complicated polygon arrangement would.

Embryo is quite a hard game to classify, as you could draw comparisons with everything from *Guardian* to *Combat Air Patrol*.

If you want a fast 3D shoot 'em up, a little dogfighting or just the thrill of strafing an airfield at low altitude while dodging tons of incoming fire, then this is the game for you, playmates. CU



You can pinpoint your enemy using this radar screen.



Spooky looking controls – I'm frightened.

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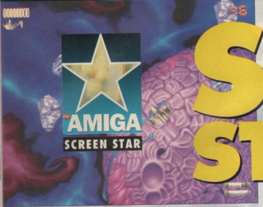
RELEASE DATE:	OUT NOW
GENRE:	SHOOT EM UP
TEAM:	CROTEAM
CONTROLS:	MSE, JOY, KEYPAD
NUMBER OF DISKS:	5
NUMBER OF PLAYERS:	1
HARD DISK INSTALLABLE:	YES
MEMORY:	1Mb

GRAPHICS	87%
SOUND	84%
LASTABILITY	85%
PLAYABILITY	90%

"Fast paced, exciting arcade flight sim."

OVERALL 88%



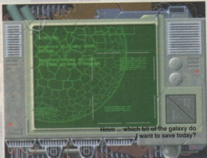
SUPER STARDUST

Bloodhouse have been promising this for quite some time, and Tony Dillon never lets anyone break a promise.

Stardust was nothing more than *Asteroids* for the Nineties. This is something that was accepted from the start, but nobody seemed to mind at all. There were no cries for more up-to-date gameplay, more originality or anything else that could be deemed to be negative. The magazines lapped it up, and so did the public: Bloodhouse found themselves with a major hit on their hands. So, changing publishers from Daze Marketing to Team 17, work began on *Super Stardust*, an AGA expanded version of the original game, and we've been waiting hungrily ever since.

THE ORIGINAL

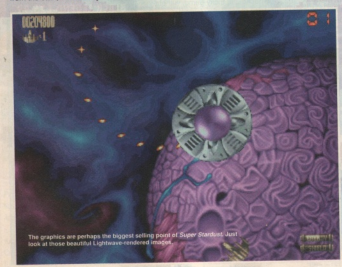
By way of explanation here's a quick recap: the original game had you flying a solo spaceship, armed with a rudimentary shield and laser cannon, flying through an asteroid belt chock-a-block with huge rocks, which you then have to blast into smaller and smaller fragments until they disappear. This is done against the clock, and bearing in mind that every time you shoot a rock it splits into two, you end up with a hell of a lot of small rocks floating around, all of which need to be avoided if you want to stay in one piece.



Hmm ... which bit of the galaxy do I want to save today?

So far it sounds like nothing more than *Asteroids*, but then that's because I haven't told you about any of the bonus parts of the game. For a start, there are barrel loads of enemy craft that visit you on various levels, such as the flame thrower – a round disc-like craft that follows you around the screen blowing streams of fire in your direction, or the Predator, an unusual cloaked ship, that causes a ripple in the backdrop as it moves around before it appears and starts firing homing missiles at you. Hardest of all, though, are the end of world enemy ships that appear when you have completed all six levels of the current world. These are larger than any other ships in the game and as you might expect, are far harder to kill.

Another new addition to the *Asteroids* format are the bonus objects that appear when you destroy certain rocks. These can be anything from an extra life or a shield bonus up to smart bombs and a strange spiralling explosion that takes out everything within a quarter of a screen radius.



The graphics are perhaps the biggest selling point of *Super Stardust*. Just look at those beautiful Lightwave-rendered images.

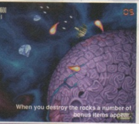
THE BUSINESS

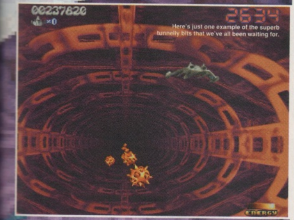
The best part of all, however, and the one thing that most A1200 owners (including Tony Horgan) have been waiting for is the tunnel section. This takes the part of a warp gate between worlds, and

looks like a large bitmap tunnel with your craft viewed from behind (third person) flying forward at an incredible speed while trying to avoid other asteroids and attacking ships. In the original *Stardust* this effect was incredible, on the AGA update it's one of the most impressive pieces of game programming ever. You can see from the screenshots on this page just how impressive it looks when it's still, and you really can't imagine how amazing it looks when it's moving at a speed of knots.

The biggest selling point of the whole game has to be the graphics. The original *Stardust* impressed everyone from the point of view that all the asteroids had been rendered with full light sourcing, but that can't prepare anyone for the sight of *Lightwave*-rendered asteroids the size of half the screen rolling around. It all looks fabulous, to say the least.

Thankfully, the gameplay matches up. Somewhat faster and smoother than the original *Stardust*, this is the kind of game you can pick up in a moment, and then get hooked in the next. A solid game from start to finish, *Super Stardust* has the kind of sheen that not many games ever get close to, and if you're an AGA machine owner, you'd be insane to miss it. CU


When you destroy the rocks a number of bonus items appear.



Here's just one example of the superb tunnelly bits that we've all been waiting for.

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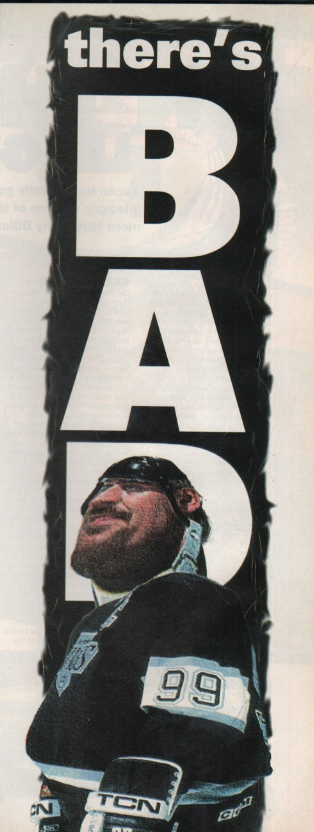
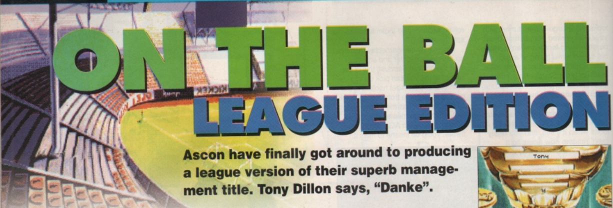
RELEASE DATE:	**OUT NOW**
GENRE:	**SHOOT EM UP**
TEAM:	**BLOODHOUSE**
CONTROLS:	**JOYSTICK**
NUMBER OF DISKS:	**3**
NUMBER OF PLAYERS:	**1**
HARD DISK INSTALLABLE:	**YES**
MEMORY:	**1Mb**

GRAPHICS	96%
SOUND	89%
LASTABILITY	92%
PLAYABILITY	90%

> *A stunning feat of programming, and a masterpiece of a game.*

OVERALL 91%





ON THE BALL
LEAGUE EDITION

Ascon have finally got around to producing a league version of their superb management title. Tony Dillon says, "Danke".

Tony
HISTORY
(57)
You are secu
in your posi

Some of you may have noticed that the World Cup edition of this mighty football management game made it onto the shelves long before the original was ready. The same people might also notice that this version of the game isn't as advanced, user friendly or attractive as the previously-released edition. The few of you who take the time to think about this will probably find it all a little strange that the original was released after the sequel.

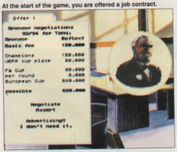
There is a reason for all of this, and it isn't just because the programming team are German. Well, actually it is. *Anstoss*, as it was originally titled, has been available in Germany for quite some time, and the German football league is set up quite differently to the UK league. When it came to converting the German product for the UK, it was far easier and quicker to convert the World Cup edition, where all that was needed was a language change, than it was to completely restructure the game. There you have it.

BACKGROUND

On The Ball is a football management simulation, where you have to take a Premier Division team and help them rise through the ranks, hopefully beyond National football and out into the European cups and the Cup Winner's Cup. You start at the beginning of the season, and have to select the right team, give them the right training and tactics and hopefully all will work out well. You have limited control over the finances of the club, improving the stadium to increase capacity, negotiating with advertisers and team members and generally keeping an eye on everything you can. If you've played football management titles before, then you'll know what to expect.

The presentation on *On The Ball* is slick. All the screens in the game were originally watercolour illustrations, scanned in and retouched on the Amiga, giving a wonderful overall feel to the game. Character has been used liberally, but not quite as liberally as the World Cup edition. A lot of the humour that appeared in the WC version is missing from this one – possibly the most amusing thing in the game is the little illustration of the ball on the tactic screen that shows you how hard or soft you are going to play.

At the start of the game, you are offered a job contract.



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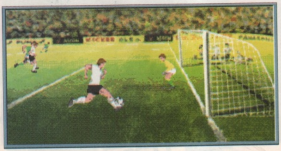
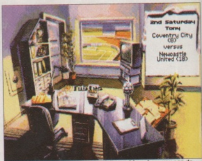


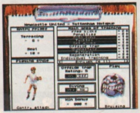
MATCHING UP

The match is possibly the best part of the whole presentation however. You are shown a clock ticking away the time, as always, but whenever something of interest happens, the screen cuts to a watercolour animation of the happening, which can be anything from a foul to a close shave at the goalmouth. There are about forty minutes worth of these animation on the three disks, and they do work well when it comes to creating a little tension in the closing minutes.

On The Ball is a competent enough management title, with more than enough in the way of statistics and options to keep the most ardent playing for weeks, but I can't help but feel a little let down by it all. This is a perfect frame for a management title, but all of the gloss and shine of the World Cup edition just isn't there. You have very limited training and tactical abilities, you do end up seeing the same few screens over and over as you work through the league, and even the 'events' that can pop up after matches (little news items that bring either good or bad luck to the team) fail to stimulate after a while. Sadly, *On The Ball* is let down by the fact that the sequel was so much better.



Your office is the hub of all your activity, and from here you can do just about everything, even play some music!



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RELEASE DATE:	OUT NOW
GENRE:	SOCCER MANAGEMENT
TEAM:	IN HOUSE
CONTROLS:	MOUSE
NUMBER OF DISKS:	3
NUMBER OF PLAYERS:	4
HARD DISK INSTALLABLE:	YES
MEMORY:	1Mb

GRAPHICS	83%
SOUND	80%
LASTABILITY	78%
PLAYABILITY	75%

> *Good management title, but lacking the gloss of the sequel.*

OVERALL 78%

and there's BAD-

DER!

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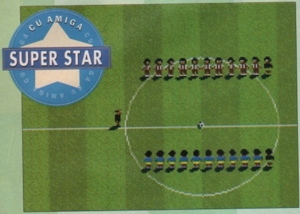
ocean

FOOTBALL GLORY

What's this? A group of Croatians have come up with a football game better than Sensi Soccer? Dillon thinks so.

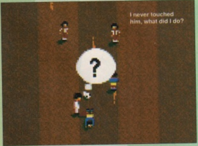


It's an inevitable fact of writing for a computer magazine that all the same old comparisons and benchmarks keep coming up. Take football games for example. Every single arcade soccer game that comes into the office has to be scrutinized and carefully checked to see how it compares to *Sensible Software*'s effort, simply because it's guaranteed that the first question you'll be asked on the game is how it stands up. *Sensible Soccer* has been an unbeaten benchmark for far too long however and Black Legend's new Croatian arm Croteam seem to agree. *Football Glory* may not have the greatest title ever, but believe you me that's the only bad point in the game.

If you've already played our exclusive coverdemo, then there's really no need for me to try and tell you how good this game actually is. In the same way that *Sensible* took as many good elements from *Kick Off 2* as they could, and then built their own ideas on top, Croteam have picked *Sensi Soccer* to bits and then added just about every new feature it's possible to add, from a whole host of new animations and moves to an incredibly comprehensive control system.

THE BARE BONES

On a very basic level, it's your standard top view soccer game, where two people take control of 22 players in a 90-minute competition where the aim is to get the small round thing at your feet into the large net thing at the other end of the playing area, or pitch. There are all the usual cups and competitions to play in, as well as a variety of practice modes, different pitches to play on, different weather conditions to play in, differently skilled players and all the other usual options found in these games.

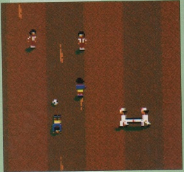


I never touched him, what did I do?

Playing the game is as easy as it could be for the beginner. That isn't to say you stand the slightest chance of winning against the computer if you just pick up the joystick and start running. Croteam have taken a long, hard look at all the things players actually do when playing football, and have included just about everything possible. Naturally it goes without saying that all the usual sliding tackles, bicycle kicks and diving headers are in there, but the amount of new moves put in is quite incredible. For example, if a player slides you, a simple twitch of the joystick will roll the ball around the tackle, and then get the player under your control to jump over the player sliding toward them. Of course, this isn't a very easy move to pull off, as you really don't have a lot of time to do quite a complicated joystick manoeuvre, but then how much time would you have in real life.

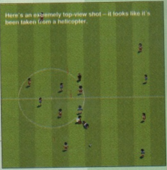
There are a lot of flash moves added to the game as well, such as ball juggling. If you want to see this in action, boot the coverdisk, select a one-player game, and leave the joystick alone when the whistle goes. After about ten seconds the player with the ball will get bored and start juggling. This is of no use at all in the game, except when antagonising a human opponent. Imagine how you would feel if a player had just run rings around your keeper, and then proceeded to stand in your goalmouth and head the ball for a while before belting it into the back of the net!

One of the places where the game really excels is in the graphics department. There are dozens of little animations for the tiny characters on screen, to cover every single type of incident that can happen during a football match. On top of the moves mentioned above there are all sorts of little quirks: players perform little Roger Milla dances after goals, there's a doctor who comes on after a particularly nasty foul (he examines the player and either patches them up, or if they are beyond help will signal for the stretcher. Two stretcher bearers run on, lift the player, throw them on a plank, and then run back off the pitch again.), streakers, players collecting cups and police who chase fans off the pitch. It's just as much fun to watch the game as it is to play it.

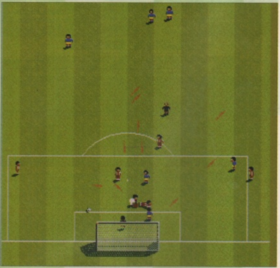


After a particularly gruelling tackle, the stretcher comes on.

Similarly, a lot of attention has been paid to the sound in the game. Obviously there is a full complement of crowd cheers and chants, played

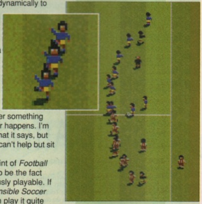


Here's an extremely top-view shot – it looks like it's been taken from a helicopter.



in stereo and worked dynamically to respond to whatever happens on the field. A reverb effect has been added to the ref's whistle to give it a far more realistic sound, and it's touches like that that make the game stand out. Best of all, is the commentary speech that comes in whenever something particularly spectacular happens. I'm not going to tell you what it says, but when it happens, you can't help but sit back and grin proudly.

The real selling point of *Football Glory*, however, has to be the fact that it is so tremendously playable. If you aren't used to *Sensible Soccer* style controls, you can play it quite simply and still stand a chance of winning. With some practice, though, and a little time and effort mastering moves like jumping a sliding tackle, or dummying the ball before running around a player, it all becomes a true test of skill, and two talented players playing against each other is a sight to behold. What can I say? The mighty *Sensi* beaten at last? Yep. CU



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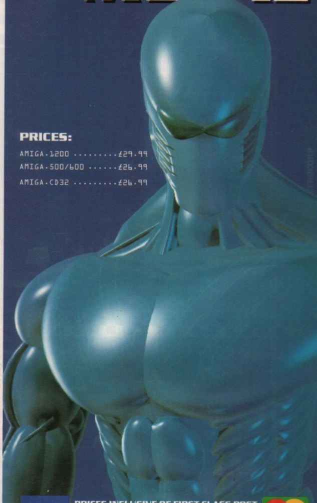

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AMIGA SCREEN STAR

When it comes to surviving in the wild, Tony Dillon is your only man. After all, he manages to look after all that hair! With this in mind we let him review Silmarils' survival sim, for better or for worse.

ROBINSON'S REQUIEM

Robinson's Requiem has been a long time coming. Over a year ago, Silmarils announced that they were going to create what could be the adventure to end all others. A game where you are left in a wilderness to fend for yourself, where the puzzles are mostly made up of just trying to stay alive, and you have complete freedom to use any object in any way you can. It was an idea that could revolutionise adventure games, maybe, and even create a completely new genre!

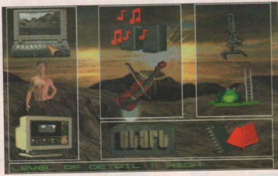
WAS IT WORTH IT?

That was over a year ago, and after seemingly endless delays, false starts and a myriad of tempting screenshots, the game is finally ready for all you lucky Amiga owners. Sadly, however, it doesn't look quite as amazing as the first screenshots implied. Instead of the glorious texture mapped Voxel landscaping used in the PC version, we have far simpler polygons that, to be honest, just don't do the job they should.

However, the graphics are not unbelievably bad and the first person 3D perspective really works. And if there is one thing that really will make people sit up and beg when they see *Robinson*'s, is the fact that it is a good game. You play a young cadet working for the AWE, Alien World Exploration, a group of people whose job it is to seek out new worlds and search every inch of them. You have five years to explore the hazardous planet you've been assigned, and are about to land fully equipped and prepared, when suddenly everything goes wrong on board, and you are forced to eject onto the planet's surface. From that point you're on your own, and have to fend for yourself in one of the most hostile terrains you are ever going to encounter.

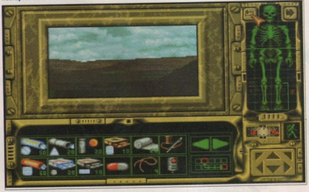
BARE BONES

You start the game with nothing more than basic clothing and a medical computer, which gives you all the information you need to see how healthy you are. It shows you how much food and water you require, your heart rate, blood pressure and body temperature plus surrounding information such as temperature and local time. If that isn't enough for you, then click on the first aid icon. This shows you a computer image of your body, with all its external marks, bruises and cuts. Clicking on the body scan icon gives you a brief internal examination, where you can discover if you have any fractures, food poisoning or any other internal damage. I told you this game was all about staying alive, didn't I? Bet you didn't think you would end up playing doctor.



The main option screen lets you completely customise the game, from switching illnesses and weather on and off, to setting the screen size and level of detail to the game.

Clicking on the medical scan gives you a view of all your illnesses. This guy's completely healthy – hooray for multi-vitamins and clean healthy living.

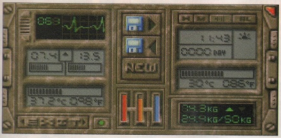


So the first and most important thing to get your hands on has to be some medical supplies. Scouring the area you find your crashed ship, and in the wreckage you'll find your medical kit, containing all the drugs and equipment you could need. Now you're on your way. Wandering around some more, you come across other Robinsons, who have gone a little mad. These will attack you, and you must fight back the only way you can – with your fist. Punching them to the ground, you strip them of their knife, matches and water bottle.

Now the game starts to get a little tricky, moving away from the standard adventure format. For example, walking to a nearby pond you can fill the bottle with water. However, instead of just drinking it you have to think of a way to make it pure. So, lighting a fire with the matches, you place the water bottle in the flames to boil the water, thereby purifying it and making it safe to drink. Heading towards the nearby trees, you cut down some fruit for food, and some leaves which you can stitch together using the needle and thread in your medical pack to form a rudimentary hat, which will protect your head from the sun.

BRAIN POWER

From the examples above you can probably tell already that this isn't



(Top) Your medical computer shows you everything you need to know .

your ordinary 'pick up one object and drop it in another location' type of adventure. Playing for an hour makes it quite obvious why *Robinson's Requiem* has taken so long to appear. A lot of work as gone into the game. It contains a complete working world environment, along with the most intelligent object manipulation I've ever come across. In the bank of icons on the right of the screen is a tool icon, which lets you combine any objects to create new, more useful ones – the leaves and the needle to make a hat, for example, or a piece of wire and a branch to create a rudimentary trap.

The possibilities seem endless, which actually makes playing the game a little daunting. After all, adventure game preconceptions suggest that every item you pick up just needs to be used in the right location to solve the puzzle – *Robinson's Requiem* is a game that you're really going to have to think about.

Visually, the game is a bit of a let down. Rather than go with the sumptuous Voxel landscaping of the PC version, Silmarils have used the rather nasty polygon terrain for the Amiga version, and to be honest it doesn't really do the job. Although it's convincing enough on the plain, when you're walking around at ground level and there isn't much to look out for, it loses it when you go anywhere where you have to walk carefully, like the top of a hill for example. It's quite difficult to make out where it's safe to walk and where it isn't.

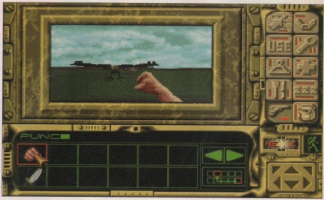
Add to that the speed of the update, which is fairly awful at the best of times, even when running on the lowest detail with a reduced screen, and you can find yourself falling when you don't expect it.

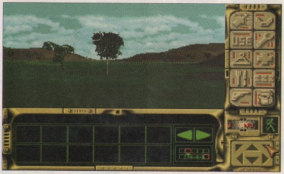
INVOLVING GAME

To be honest, though, I found the game so involving that I completely forgot about the disappointing graphics. How much attention can you pay to the look of a game when your brain is constantly figuring out how you can use a bottle of aspirin with an eagle's egg to create an interesting trap?

At the end of the day, *Robinson's Requiem*'s gameplay is every bit as fresh and original as it was intended to be, even though it is let down by the graphics. As a result it's quite difficult to mark. It's a very hard game to get your head around, although survival experts will doubtlessly have no problem at all in walking through the game first time.

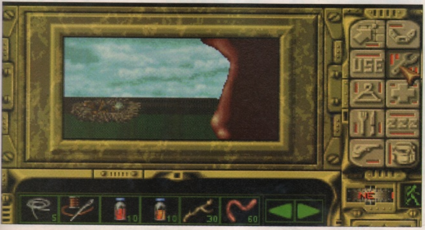
A mighty challenge from start to finish, marred only by the graphics and the relative speed of the game. If you want something new that will completely blow your brain, then this could well be the game for you. Other than that, I can only recommend that you try this one before you buy. I know it's a cliche, but there you are! CU





Above: In full screen mode, the game looks a lot better, but sadly doesn't move as well.
(Top) Punching an eagle is a nice, humane way to dispose of it!

After a particularly nasty scrap with an eagle, the player has lost the use of their right eye. That'll need to be patched up, and I don't think that bird's nest will help.



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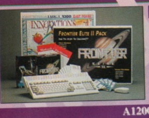

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VFM

With more quality software 'out on the cheap', bargain hunter Matt Broughton ploughs through this month's crop of budget releases.

BUDGET

EPIC

HIT SQUAD OUT NOW £15

Epic is one of those games that people either loved or hated when it first came out. Being a sort of '*Wing Commander* with polygons' it took the 'first-person perspected' player through a series of connected missions, each part of an overall campaign against an alien invasion.

Trying to be a bit ahead of its time, *Epic* used short, vaguely animated cut-scenes, to split the missions up and tell the story, and though it was quite inventive in that the story could go a number of different ways depending upon your performance, it was ultimately lacking in depth.

The actual game play isn't too bad, and if played on an A1200 moves at a fair speed, it's just not all that exciting or challenging, ultimately ending up as the sort of thing you play once a year and complete on your first or second go.

An interesting game, but try to have a play before you pay just to be on the safe side.

70%

TITUS THE FOX

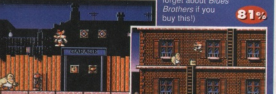
TITUS OUT NOW £7.99

Another Titus platformer, only this time one with a bit more class. There are certain similarities between *Blues Brothers* and *Titus The Fox* (to the point of pure copying at some points), but the latter beats the *BB*'s with sharper graphics and more varied game play throughout.

There's nothing here we haven't seen before, but with some nice level designs and the odd bit of strategy, *Fox* does manage to rise above a fair amount of its competitors. The game also features a bit of planning and strategy, with objects being used either as weapons or as 'building blocks' allowing Titus to climb to higher points. though the strategy is nothing more taxing than where to use items offensively or helpfully, it does add a little something to the game.

If you want to buy a budget platform game, choose this (and definitely forget about *Blues Brothers* if you buy this!)

81%



BLUES BROTHERS

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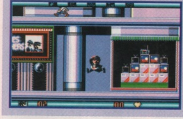
THE BLUES BROTHERS

I think it's fair to say that the *Blues Brothers* film is a classic. I also think it's fair to say that the *Blues Brothers* game isn't. It's not all that bad, and in fact if you like simple platformers, you won't be too disappointed, but we've come to expect more from our games these days, and to be honest, this Titus budget release just leaves me a bit cold now.

I do remember when it originally came out, and do remember enjoying it quite a bit, It just seems that we've seen about a million games of this genre since, making a second appearance nothing more than a reminder of how 'not really that good' it was first time round.



The basic idea is that the player controls either Jake or Elwood Blues, and must make his way around a number of platformed levels, collecting spinning disks and performing general platform activities. Not the worst game ever, but not the best. Ho hum.

52%

THE EXECUTIONER

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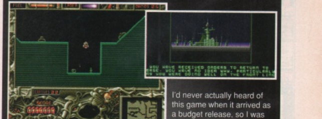
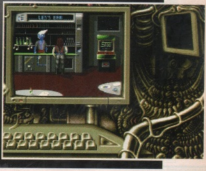

YOU HAVE RECEIVED ORDERS TO RETURN TO BASE. YOU HAVE NO IDEA WHY, PARTICULARLY AS YOU WERE DOING WELL ON THE FRONT LINE

I'd never actually heard of this game when it arrived as a budget release, so I was both pleased and surprised to find that it's actually quite interesting. For the most part *The Executioner* is an arcade game based upon the old classic *Thrust*, with you controlling your craft in a 'rotate right/left and thrust' fashion, while gravity, inertia and gravity have their wicked way with you.

The authors have tried to cover up the obvious *Thrust* 'cloniness' by adding an overall mission element to the game; sending the player off to a number of planets to capture prisoners and bring them back for questioning. This is where the 'executioner' part of the game appears, as you, to put it simply, torture your prisoners until they either tell you what you want, or … er, die. Not particularly sound on a moral level I know, but then again, nor are the death moves in *Mortal Kombat*.



The Executioner is ultimately nothing more than an attractive clone, but you could do a lot worse for £8. Good fun.

80%

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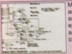

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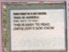

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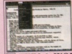

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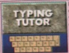

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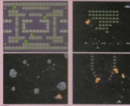

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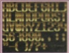
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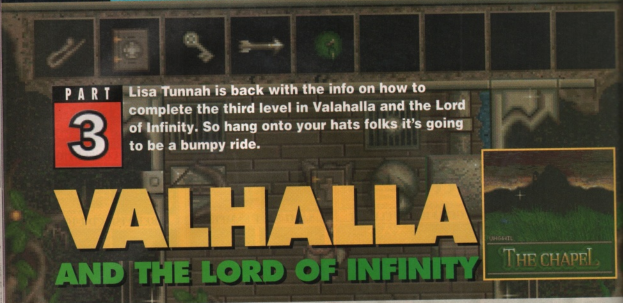


PART 3

Lisa Tunnah is back with the info on how to complete the third level in Valhalla and the Lord of Infinity. So hang onto your hats folks it's going to be a bumpy ride.

VALHALLA

AND THE LORD OF INFINITY

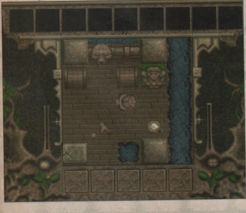
On the opening screen of level three you'll find yourself trapped between two floor tiles, pick up the cement from the tomb beside you and drop it on one of the tiles, walk over it and pick up the monocle, the door key and the kirby grib, then operate the large drain to the right of your relative and take the arrow. Operate the tap and take the granny smith which is on the tree stump. Put the arrow on the crossbow, operate the lever and then take the toffee that was inside the apple.

Insert the toffee into the toffee lover and take the potion of seeing and the green fingers potion from the chests that open. Operate the drain near the tree stump and take the seeds. Walk down to the wall near the drain where you found the arrow. Drink the potion of seeing and a door will appear. Quickly unlock it before the potion runs out or it will disappear forever. Pick up the book of relatives, the bag of sand, the book about river keepers and a bottle of stamina which are beneath one of the drains.

Put the seeds in the tub of earth, operate the tap and take the flower, travel back to the first room and put the flower in the vase, take the poetry and the ring of goodwill from the chests that open.

Put the ring of goodwill on the altar of dispute and take the white dove. Go back to the first room and face the river keeper, then select the white dove and look at while it is in your rucksack, the river keeper will grumpily allow you to cross to the other side of the river.

Is this a dagger I see before me?



HAIR SLIDES

Pick up the French drama and pull the lever, then cross over to the left-hand side where the spiked door has changed to a door with locks. Insert the kirby grib and walk into the room where the door locks behind you. Operate the drain to the river keeper in this room and read the books about the sweet that's sensitive to sound. Put the sand on the floor tile in front of the sweet then walk on the sand and take the sweet that would otherwise disappear. Pick up the kettle and match from in front of the tap, then put the kettle on the floor an fill it with water. Put the match on the grill, remove it when it's lit then put the kettle on the grill. The kettle whistles and the glass beside it breaks revealing the key to your escape. Before you eventually leave the room pull the lever then go and search for the door that is open.

After exploring the new room and picking up a song sheet go back into the room where the cannon is and insert the toffee into the toffee lover. Take the lyrical potion then go and find the poet's tomb. Put the poetry on the poet's tomb, drink the lyrical potion and look at the poetry which will change into a pair of slippers, the perfect gift for grandad who you can identify using the book of relatives. He's so delighted he gives you a toffee which you insert in the toffee lover to the right of the room – the other one is trapped. Take the cannon ball and a bottle of stamina. Insert the cannon ball in front of the cannon then drop the lit match on the back of the cannon to blow up the rock that is blocking your way.

A dead poet is a famous poet or so they say.

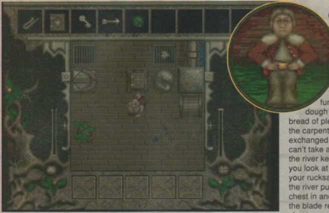
DRAMA QUEEN

In this next room operate the drain and take the quill, then return the monocle to Uncle George, after taking the cross, who thanks you for your trouble. Put the French drama on his coffin and he kindly translates it into an English play. Drop the quill into the inkwell in the room you have just come from and take the globe of wisdom and the Hercules drink from the chests.

Travel back to the room where you found the disappearing sweet and face the river keeper, look at the globe of wisdom in your rucksack then cross to the other side of the river where you will find Shakespeare's drink.

MUSICIAN'S TOMB

Put the English drama on Lord Monty's coffin, drink Shakespeare's drink then look at the play which disappears, this wakes Lord Monty up and if you look at his face he will tell you that he is aching all over. Go into the room where grandad is lying, drink the Hercules drink then pick up the piano. Go and find the musicians' tomb, drop the piano then operate



There are plenty of objects which you can use here.

the keys, a short tune informs you that you've got it right and a lever appears on the wall behind you, this opens the door into the next room. In here are four plants that all remove your stamina when you try to remove a leaf, and a Nanny who asks you for Fluffy. Drink the green fingers then take the leaf from the bottom left plant, go and find the herbalist bowl where the leaf is exchanged for a healing potion which Lord Monty will truly appreciate, in return he gives you the first of the four official plates.

SWEET TOOTH

Back in the room where you found the plants, take the toffee from the corner which you give to the nearest toffee lover, take Fluffy the teddy bear from the chest and the choral drink. Give Fluffy to Nanny who rewards you with a door key. Put the songsheet on the singer's tomb in the canon room, drink the choral drink then look at the songsheet, after a burst of song from the prince the songsheet disappears and somewhere a door opens to the room which contains Lord Charles, he won't speak to you as he was buried without a funeral but you can operate a drain and take the royal seal. This seal goes on the royal note and opens two chests, take the lucky heather and the wizard's wand.

LUCKY HEATHER

Put the lucky heather on the gypsy's tomb and take the bad luck horseshoe, put this on the mirror in the room where you found the disappearing toffee, the mirror changes the bad luck to a good luck horseshoe. Go and find the river keeper that lives in the same room as the musicians' tomb, face him and look at the lucky horseshoe, on the other side of the river pull the lever that opens a door and take the gem. Now you can enter the room you have yet to explore, in here find a recipe which changes into dough when placed on the cook's tomb, a stone tablet with 'two' written on it and a plank.

HOCUS POCUS

Take the candle from the artist tomb and drop it into the candle holder you should have come across by now. Take a door key which tells of the brave boy who confronted the faces of evil, this informs you of the correct face in which to insert the red gem to avoid suffering pain and despair. Insert the gem into the third evil face from the left to be rewarded with a gift to enable you to be a wizard for a short time, rush back to the wizard's tomb before your power vanishes, put the wizard's wand on his tomb then look at it, the wand changes into a blank canvas. Put the blank canvas on the artist's tomb and a portrait of Lord Terry miraculously draws itself onto the canvas. Lord Terry by this time has probably already told you one half of a joke which he continues to do each time you look at his face. Put his portrait on his coffin, look at his face and he will tell you the whole joke which isn't at all funny but the portrait is changed into the second official plate.

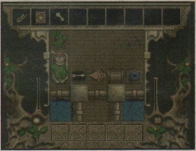
Isn't the little prince so cute?

OPEN SEASAME

Open the relevant door with your door key and speak to the ghost who asks to be laid to rest. Put the cross on the priest's tomb and take the funeral wreath, put the dough on the grill and take the bread of plenty and put the plank on the carpenter's tomb that is exchanged for a saw which you can't take at this stage. Go and find the river keeper that responds when you look at the bread of plenty in your rucksack. On the other side of the river pull a lever which opens a chest in another room and then take the blade resist potion. In the open chest you will find a potion of sermons and a bee.

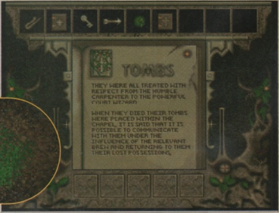
Put the funeral wreath on Lord Charles' coffin, drink the potion of sermons then look at the wreath. Lord Charles is released from his torment and his ghost has disappeared leaving behind the staff of honour. In the same room drink the blade resist potion and take the saw, drop it onto Lord Diabolis' coffin then wait till the blade resist potion has run out. Touch the saw and the Prince will scream in pain which wakes up Lord Diabolis, look at his face and he will ask what your ambition is.

Find the final river keeper who responds to the staff of honour and then pick up the picture of the king from the other side. You should now have three objects of worth which you drop into the mixing bucket. You now have a mixture of the three and when the prince looks at it, he says 'To be King'. Go and stand beside Lord Diabolis and tell him your ambition, the saw that should still be sat on his coffin turns into the last official plate. Back in the room where the banqueting table is situated, put the four plates on the table, there are 20 different combinations but when you get it right the last door opens.



There are plenty of puzzles to solve in *Valhalla* but don't worry, there are a lot of clues to help you.

Make sure you have the white dove, the globe of wisdom, the good luck horseshoe, the bread of plenty and the staff of honour in your rucksack, as you sail down the river you have to present theses objects to the hands that reach out of the water, now you're on your way to lever four. Tune in next month to find out how to complete it.



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Adventure Helpline

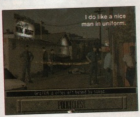
VAMP

I seem to have had a rush on letters this month about the police, so I'll start with those first. I must say that I am in two minds about the boys in blue. I do love a man in uniform, but they tend to get upset when I kill a few stupid males occasionally.

POLICE QUEST

I desperately need your help. I've been stuck at the Hotel Delphoria in *Police Quest 1* for ages. Woody the bartender has told me to dump the broad (Sweet Cheeks) and then come back. However, I can't get rid of her.

Chris Szelachowski, Manchester.



When I want to get rid of someone I tell them: "I think we should just be good friends ..." Which is a polite way of saying, "Why don't you push off walrus-face!"

In this case you should go to your hotel room, dial 411 on the phone (that's the number of Directory Enquiries in the USA) and ask for a taxi to take her away.

While we are talking about this game I'll also answer L. Smith 's letter, who wanted to know what to say to Sweet Cheeks when she was in the jail. The answer is: 'Help with the hotel operation'.

Finally, here are a couple of fun things to try: enter the names of the game's programmers into the station house computer. Use the toilets in your hotel room and Carol's Castle. Telephone Helen Hots – the woman in the sports car.

POLICE QUEST II

I'm can't find the combination number to Detective Bond's locker and it's driving me potty.

Marie Symans, Cornwall.

What a coincidence! I have an uncle that we keep under the bed because he's a little potty as well. The number you seek is written on the back of the business card which is found in the glove compartment of your car. Just type: 'Turn card over'.

POLICE QUEST III

After weeks of frustration I have decided that I need help, so who better to turn to than 'The Babe in Black'? On day six of *Police Quest III*, I have to enter the crack house, kill the drug dealer, arrest Bains, and then find the secret room. However, before I can finish the investigation my girl partner turns up and shoots me with the dead man's gun. What have I missed? Help me Vampyra, you are my only hope. (I knew I should not have watched *Star Wars* before writing this.)

Steve Atkinson, Manchester.

I think I quite like the idea of being 'The Babe in Black', although 'Babe' is perhaps a little sexist. Still, you sound like a nice boy so I'll let you off this time. Your female partner sounds like a bad cop to me, but then anyone who takes pot-shots at men can't be all bad. Did you find the drugs in her locker at the start of day six? If not, then this is what you do.

After you have spoken with the Captain, take the lift to the first floor. Go into the Gents and stuff a toilet roll down the toilet. Return to the hallway and talk to the janitor. Now you can head for the Ladies' Locker Room and open Morales' locker (combination 386). Use your notepad on the drugs and then rush back and tell the Captain.

KINGS QUEST VI

I am stuck on The Cliffs of Logic. I managed to solve the first two problems but now I'm stuck on the third.

Suzanne Hatton, South Wirral.

The answers to the five puzzles are in the manual – to protect against people playing pirated versions of the game. The answer to the first problem is on page 33. The second answer is on the last line of page 26, the third on page 33, and the fourth is on pages 27, 30 and 31. The last riddle's answer is on page 33 again. I will tell you that to solve the fourth riddle you must choose the symbols for Azure, Caterpillar, Tranquillity and Air.

KEEF THE THIEF

About two months ago I bought a great little game called *Keef the Thief* and now I am stuck. I have reached the ruins in the south-east, gone down the dark hole and have found the room with the strange door in it. There is also another door in the stone walls under the bay, accessed through Al Hadratas' hut. How do I open one or any of these doors? I have tried using the key from Al Hadratas, but it does not work.

If help is not received soon I may have to take an axe to my beautiful Amiga, (though it's not as beautiful as you my sweet!)

Matthew Thomas, Swansea.

I think it is the Koran's Key that you are looking for. It is in the Mem Santi Temple. To get it you must, first of all, disarm some traps. Use the knife to jam the spikes in the floor, then use the knife to jam the panel in the right wall. Squirt oil into the cracks in the ceiling, crush the top of Specter and remove from stand. On the right side of bench, squirt oil inside the hole. Climb to the top of the hollow tree trunk and go up in the lift. At the Foyer, show the Shard of Mem to the Curator and then search to reveal a hidden door.

LEISURE SUIT LARRY II

I don't know where to find the passport that I need to board the ship in *Leisure Suit Larry II.* I have the cruise ticket, the million dollar bill and the Grotesque Gulp. I have also bought a swim-suit and some sunscreen oil, and I've been given the Onklunk from the lady in the music shop. Help!

Matthew Golding, Kent.

You omit to mention that your girlfriend threw you out of the house for being a balding sexist pig! Well bravo for her. You may be interested to know that she has also thrown away all of your things and that includes your Amiga, dirty books, bull-worker and passport. If you hurry you might just recover it from the garbage outside your house before the trash wagon arrives. Serves you right sucker! CU

> *"The perfect gift for the man who has everything, is a girl like me who knows what to do with it!"*

Write down your little problem and send it in a plain envelope to: 'Dear Vampyra',
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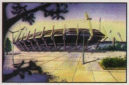

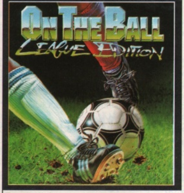

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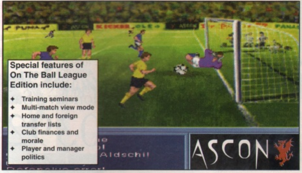

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The Official Amos PD Library is the largest source of Amos related source code and programs in the world today. The library is run by Len & Anne Tucker and is endorsed by Europress Software, the publishers of Amos and Amos Pro. This compact disc contains the entire library from disk 1 to 620, each one arranged in it's own directory and catalogued. The disc contains in excess of 33,000 files with over 1600 Amos source code files, 100 sprite banks, 260 Ctext banks, 800 samples, numerous music banks and several extensions to Amos & Amos Pro. Workbench is also included as are Parnet and Sernet to allow transfer of the contents across a network from both the CDTV and the CD^{32}. This CD is truly a testament to the immense following that Amos and Amos Pro has achieved in the past few years and represents thousands of man hours of writing Amos code which will prove to be an invaluable source of help and tuition to the Amos user. Weird Science is proud to bring you this remarkable resource for only **£19.95**

Compatible with all Amigas

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The Network CD sets up a link between a CDTV or CD32 and any other Amiga. The CD32 or CDTV acts as a remote drive for your Amiga, allowing access to the vast pool of data available on CD Rom. The CD32 cable also available uses the AUX socket of the CD32 and comes complete with a keyboard pass through, thus still maintaining the ability to connect FMV or SXI addons. Network CD sets up a Workbench environment and disables the reset function, allowing the CD to be changed and access to any other ISO9660

CONTENTS

Parnet & Sernet
NComm & Term
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Amos PD 478 to 603
74 Utility Disks
PhotoCD Conversion
500 Images in 256 cols.

Network CD £ 14.99
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Network
AMIGA CD

New Releases

CLIP ART

Over 550megs of Clip Art for Amigas and PCs. The most comprehensive collection of Clip Art ever for the Amiga range of computers. In total over 26,000 files. The following formats are catered for, B&W Iff Bitmap, Coloured Iff Bitmap, Proclips, EPS, Pagesetter, Pagestream, IMG, Corel Draw and coloured brushes for DPaint All ready to use and easily accessible in subject directories.

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Clip Art & Fonts £ 9.99 each
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GET SERIOUS

Now you've flexed your muscles with all that lightweight games stuff, get down to some real business in the technical section of the magazine. This month ...

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117 PD UTILS
124 ART GALLERY

The CU AMIGA top rated accolade for non-games products scoring over 90%. They will definitely be worth the money and are likely to act as a benchmark for future releases.

WORD PLUS PROFESSIONAL

crossword aid

If you're into crosswords in a serious way, you might find this new utility of some interest. You know how it is, it's more than an hour since you started and you know that anagram is lurking within the clue but can you solve it?

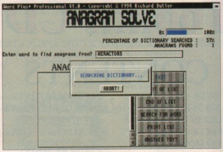
Word Plus Professional comes to the rescue. Well, at least theoretically; it certainly got all the answers right in the Sunday Times edition. It also managed to find several words when I only had one or two letters, e.g. C?R????? became CURLICUE, but only with considerable searching through options. It has the option of searching its dictionary for words containing a certain sequence of letters, e.g. ADD becomes LADDER, WADDLE etc., which is certainly useful for the *Times* crossword. You can also get it to tell you what words can be made from a particular word, e.g. NEPOTISM includes MINE, STONE etc. Lastly you can add words to the dictionary.

All these options can help make short work of just about any crossword and might also be useful if you enjoy entering competitions. This program is not going to change your ability to do a good crossword overnight though. You need to be well versed in your favourite puzzle's ways before *Words Plus Pro* will be of any use (for instance, you must know that a statement like 'One main dump' is an anagram). The program becomes near useless if the clue has more than one word in the answer though, this goes for both the anagram and 'Make Words' options.

So, when it comes to the crunch *Word Plus Pro* might well be useful to you if you are a crossword buff and already know your stuff but will be of only limited use if you are a beginner. The program itself is very well designed and easy to use, most importantly it is quick. There aren't piles of options because you don't need them which makes the program ideal for the computer shy. When the program can handle multiple words from a single clue it will be a killer. As it stands *Word Plus Pro* has the biggest dictionary, the fastest sorting and is definitely the best Amiga program of this type.

Available from: Richard Butler, Reconley Software, 649 London Road, High Wycombe, Buckinghamshire HP11 1EZ. Price: £14.95 including P+P.

85%


Word Plus+ Professional V1.0 - Copyright © 1994 Richard Butler

ANAGRAM SOLVE

0% 100%

PERCENTAGE OF DICTIONARY SEARCHED : 57%
ANAGRAMS FOUND : 1

Enter word to find anagrams from? HERACTORS

SEARCHING DICTIONARY...

VERO BACK-UPS PRO

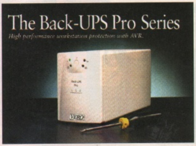
uninterruptible power supply

Power cuts can be a real pain. I hope that one never happens to you in the middle of a major piece of work – especially if you're not in the habit of saving regularly. Power cuts are not just caused by an electricity board strike, the possibilities are endless. For example: someone switches on a high powered drill causing all kinds of 'mains spikes' resulting in a crash, or someone accidentally unplugs your machine, the list goes on.

VERO UPS could be the solution to a good percentage of your nightmares. The VERO UPS (Uninterruptible Power Supply) is a chunky little block which goes between your computer and your mains socket. Basically it's a fairly hefty battery with a few little gizmos built in. What happens is this: the mains goes off and within five milliseconds the battery kicks in to power your computer, letting out an alarm to warn you of the problem.

If you use an Amiga professionally then you'll definitely need one of these. Especially if you leave your machine rendering over night or engage in similar lengthy tasks. It only takes one idiot trying out a badly wired plug to blow your trip switch and bang – a whole working day is lost because you'll have to render it all again. The same goes for systems which are linked via modem to other sites.

The unit is very well made and encased mostly in metal. It's also damned heavy, weighing in at an impressive 11.3Kg for something not much bigger than a shoe box. It has a two stage alarm which is useful, a simple repetitive bleep at first then a real howl as time moves on. The most important thing has to be performance and here the Vero does well. Before it even had a chance to be fully charged it managed to keep my A1200 and 1084s monitor going for over 17 minutes, this while the hard disk was being constantly accessed. With a full charge it should do more, but that will depend on your set up.



If you are using your computer seriously then I go further than just recommending a UPS. This unit is not the cheapest available, but is the best low price UPS I have seen for a long time. The question is not can you afford one but can you afford a powercut if you don't have one.

Available from: VERO Electronics, Electron Way, Chandlers Ford, Hampshire SO45 5RQ. Tel: 0703 266211. Price: £189 including VAT and delivery.

89%

AMIGA OS 3.1

Workbench and Kickstart Upgrade

For more years than I care to remember Amiga users have struggled with version one point something of Kickstart and workbench. The people who did, and often still do, use the older OS (operating system) are a hardy breed.

Now the time has come to wave a definite goodbye to that old, familiar, blue screen. OS 3.1 has arrived with a splash that has left ripples throughout the Amiga community.

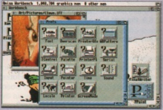
If you are a serious Amiga user, this is a must. I say serious because to use it without a hard drive is a chore, it will work but expect to get disk shuffler's wrist within a few days. If you are using a OS version less than 3.0 then you'll have days of fun exploring the new features in here, things like the ability to read and write PC disks (really useful for 'borrowing' PC graphics and fonts), the outrageously large amount of preferences programs and, perhaps most importantly, support for CD-ROM. There are all kinds of little extras to discover and several hundred pages of manual explaining how to discover them.

There are two versions available at the moment, one for A500/A1500/A2000 owners and one for A3000/A4000 owners. A600 and A1200 owners have no apparent way of upgrading. In the case of the A1200 there's no need to worry, the OS 3.1 disks automatically patch the OS 3.0 ROM into 3.1, you just loose a little memory. Unfortunately in the A600 the ROM is surface mounted so owners will have to upgrade to the A1200 or A4000 if they want OS 3.1.

The price is perhaps the main reason for all those ripples in the Amiga community. It certainly isn't cheap, but perhaps it is a lot cheaper than it might first appear. An *Arexx* manual is included, which would cost you £20 bought separately.

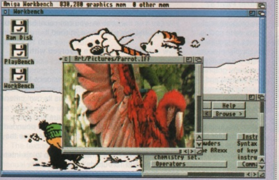
Then there's the most important thing, if you have an OS version 2 or higher, you can sell it on to someone with OS 1, which will benefit the Amiga community as a whole. So in real terms OS 3.1 only costs £40 - £50. I would still rather it were cheaper, but at least breaking it down makes it easier to swallow.

All in all, for professional and serious users this is a must. It's not cheap, but it kicks the A500 and A2000 into the nineties and adds a real sparkle to them. The only question left lingering is would it be a better alternative to upgrade your machine to an A1200/A4000 instead?



Available from: Blittersoft, 40 Colley Hill, Bradwell, Milton Keynes MK13 9DB. Tel: 0908 220196 Price: £84.95 (A500/A1500/A2000) and £94.95 (A3000/ A4000).

80%



Amiga Guide and Multiview, just two new things from OS3.1, you can even have a 256 colour Workbench if you have a suitable graphics card.

THE SOCCER EXPERT 94/95

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The New Version

This outstanding football result predictor program gives you the intelligent way to win - predictions are generated from user entered values.

The stored information of the software can be combined with additional team and fixture information from your own sources (e.g. newspapers, tips, latest results etc..) to give you maximum flexibility.

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RESULTS Up to Date of Despatch

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- ☒ POINT AND CLICK USER INTERFACE
- ☒ FIXTURES AND RESULTS EASILY ENTERED
- ☒ PRINTING OPTION INCLUDED

☒ *"I used the program for the first time on Saturday. I put four lines on a fixed-odds coupon, all predictions taken directly from the program. The success rate was as follows;*

9 correct out of 15 **(60%)** 7 correct out of 10 **(70%)**
3 correct out of 4 **(75%)** 7 correct out of 7 **(100%)**

You have one very satisfied customer-looking forward to next season!"
M. O'Brian, Linlithgow, Edinborough.

☒ *"Simply the most comprehensive and easiest to use. Delighted to receive it within days of sending my order!"*
G.J. Kendrick, Leicester.

☒ *"Seven out of ten results predicted correctly. One of the most accurate prediction programs around. Using a complicated system of weights and measures, it takes the current performances of all the teams in all the leagues to predict the likely outcome of a match. A Class Product."*
CU Amiga Accuracy Test - March 1994

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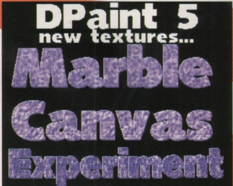
IN THE HOT SEAT

Tony Horgan talks to the men behind the Amiga's most popular graphics package.



Ever wondered just who is responsible for the Amiga's best loved graphics package? The full credits list would be as long as your arm, but we've tracked down three of the main players in the production of *Deluxe Paint 5*.

Lee Özer - *Deluxe Paint* Engineer
Like many of the creative talents who have worked with Electronic Arts, Lee's entry into the big time began with the Amiga. Lee attended Stanford and designed her own major in Artificial Intelligence. She came to work on some of Dan Silva's original *Deluxe Paint* code, which was called Prism Graphics Primitives at that time. Six months later she returned to finish her degree at Stanford, and stayed on to do an MS degree in Computer Science.

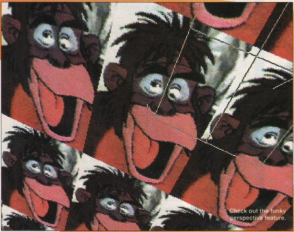
Dallas Hodgson - *Deluxe Paint* Engineer
Dallas J Hodgson got hooked on programming in 1978. He worked his way through college and high school, searching for ways to integrate his interests in art and music with the use of technology. When the Amiga was released in 1985, Dallas embraced the exciting new platform, writing the popular PD utility *NewZap*.

Dallas moved to Silicon Valley to get closer to where it all began. He'd worked on embedded operating systems, paint software, data analysis tools, disk utilities and game software before landing his job with Electronic Arts.

Orlando Guzman - Associate Producer
Orlando had a fascination with art and technology for as long as he can remember. In 1986 he bought his first Amiga on the strength of its graphics alone. After college in 1989, he went through jobs as an assistant teacher and a video graphics artist. Orlando was hired at Electronic Arts to do customer support, mainly because he was well versed in the use of the Amiga and *Deluxe Paint*. He never through that he would end up as part of the design team, doing production work on *DPaint* AGA and *DPaint 5*.

INTERROGATION TIME

Exactly what goes into the development of a program as big as *Deluxe Paint 5*? We probed the developers to uncover some trade secrets ...


Check out the funky perspective feature.

What research was carried out prior to the development of *Deluxe Paint 5*?

The program engineers were coding demos to test the practicality of some major issues, like third-party graphics card support and multimedia things like the new Player. We also looked at other paint and animation products on other computer platforms. The production team has user focus groups, and is in constant contact with beta testers, artists and animators to ask them what they wanted in Version 5. For every new feature in *DPaint 5*, there's another one that didn't make it, either because it was impractical, or we just didn't have time.

What system do you use for development?

DPaint 4.5 was written on a few A3000s networked via Ethernet and TCP/IP to a NeXT file server. We upgraded our main development machines to A4000s this year, with about 10Mb of RAM each, and larger hard drives. Two of the machines have tape back-up units, and the NeXT has a CD-ROM drive, so we can grab stuff from disks over the network.

What language is *DPaint* written in?

90% of *DPaint* and the Player is written using SAS/C 6.5, the rest is in assembly.

How many people are working on Version 5?

The development team consists of three engineers, six production people, four testers, one writer, and a team of translators to create the foreign language versions.

When do you expect to finish the program?

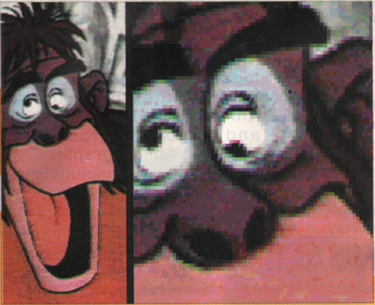
It's expected to ship this Fall (Autumn). So when you see it on the shelves, you can count back two months, and that's when we finished it.

How many beta tests are involved with the program?

It's an ongoing process that begins once the major feature set is done. There's an alpha, beta and final phase, each of which has its own criteria which must be met and approved.

Between our outside beta testers and our inside staff, EA products get thoroughly pounded on a wide variety of systems before they see the light of day.

With *Deluxe Paint 5*, we've had up to six internal testers and 15 outside beta testers or consultants, including professional animators and video artists, television producers, Amiga developers and teachers.



What do you think the future holds for Amiga graphics programs?

The Amiga has to continue the trend of providing solutions for professional users, an area that NewTek has done a marvellous job of cultivating. This holds true not just for the Amiga, but for all non-PC platforms that wish to continue. It's important to attract and hold users with functionality that can't be duplicated anywhere else, and we're trying to do this with *Deluxe Paint 5*. Professional features require fast hardware to run and big development costs to create, so we see a definite trend towards the high-end.

Where did the idea of natural media tools come from?

It has proven to be a popular feature on other platforms, and when we researched the idea, it was less difficult than we thought. The combination of media types and simulations of different surfaces, will allow digital artists and animators a way to recreate real world art. I can hardly wait to see what the users do with these features.

Which natural media tools will be implemented, and how did you arrive at the choice of this selection?

Natural media tools are just an effect – a different way of mixing bits together on screen. Lee Özer researched all the information she could find, talking to professors, reading SIGGraph articles, and drawing on her own art background. Right now, we've got some of the most popular ones like oil, watercolour, and chalk. It's an open system, so third parties can write their own plug-in media types too.

The textured backgrounds were all created internally by our production and testing teams. The manual will teach users how to create their own textures simply and effectively. The chosen media types came about by asking ourselves what were the most popular surfaces used in conventional art. We included the most basic ones, but when combined with the different colour modes and processes, they become very flexible.

What changes have been made to the internals of the program?

I'd guess that about two thirds of the code has been completely changed, added to or re-written for *Deluxe Paint 5*. The basic structure of Dan Silva's original concept was sound, so there's no need to change that. Much effort was spent turning the software into an open architecture, and to make fewer assumptions about the system it was running on. This open ended design will allow people and third party developers to create utilities, scripts and libraries that will allow *Deluxe Paint* to do just about anything.

What was the thinking behind the macro facility?

Part of the open ended design changes involved the addition of *ARexx* macro support. We wanted to give users a way to extend *DPaint*'s functionality in ways we can't yet foresee, and at the same time make it a feature that non-programmers will still find useful. This type of control is an Amiga strength, something unique to the platform that's just not available anywhere else.

How about the sluggish brush handling of previous *DPaint*s?

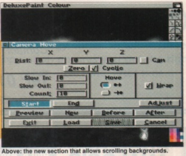
We've added a new feature that will increase the speed of moving around large brushes, such that the user will think they're only moving a single pixel brush. Wait 'till you see it. We're concerned about speed,and there are many areas in the program that we're optimising. We will try to keep improving the speed wherever it is practical to do so.

What do you think of *Brilliance* as a rival to *DPaint*?

Digital Creations did a credible job of trying to compete with *Deluxe Paint 4*, given that they had to match the feature set of a product refined by years of suggestions in their first release. They're still playing catch-up though; where was the Light Table? Why two separate programs? Aiming at *DPaint*'s functionality is like hitting a moving target, and we're well beyond anything that's available now.

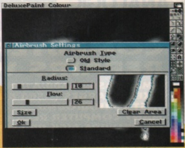
Finally, which of the new features are you most proud of?

ARexx Macros
24 Bit RGB Backing Store
Variable frame rate control
Camera (background) moves
Textured backgrounds and media types
Soft edge airbrush
Multiple palette animation control



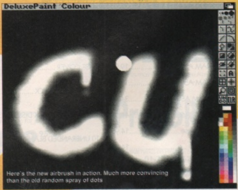
Dist: 0 0 0 ☐ Can
☑ Cyclic
Slow In: 0
Slow Out: 0
Count: 10
Move ● ○
☑ Wrap

Above: the new section that allows scrolling backgrounds.



Airbrush Type
○ Old Style
● Standard
Radius: 10
Flow: 26

Above: choose between two types of airbrush in *DPaint 5*.



Here's the new airbrush in action. Much more convincing than the old random spray of dots

NEW GENLOCK FROM RENDALE

At last, the new Super-VHS genlock from Rendale is available. The Super-9402 is a true S-VHS genlock, offering high quality output, together with other features. It offers the ability to fade Amiga graphics in and out, and also to cross fade between Amiga graphics and your video input. Various extra modes are offered, including two keyhole modes.

Buy this new genlock directly from the manufacturers, at a price of only £299 including VAT and delivery.

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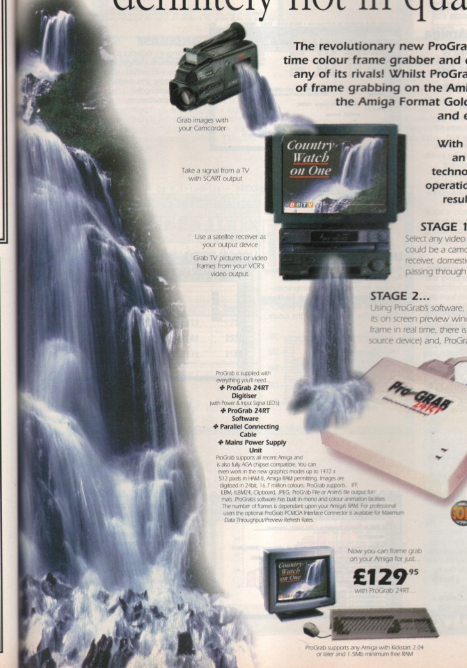
Access

VISA

Amiga Frame Grabbing has just taken a Fall... in Price but definitely not in quality!



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STAGE 1...

Select any video source with composite output. This could be a camcorder, TV with SCART output, satellite receiver, domestic VCR/player or standard TV signal passing through your VCR/player... the choice is yours.

STAGE 2...

Using ProGrab's software, select the image you wish to capture in its on screen preview window (because the hardware grabs a frame in real time, there is no need for a still frame facility on the source device) and, ProGrab even includes a Teletext viewing/capturing facility from suitable inputs. Once grabbed, simply download the image to your Amiga for full screen viewing.

STAGE 3...

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TurboCALC

TurboCalc is a new spreadsheet for the Amiga that claims to set a new standard. Not one for figures Andy Leaning takes the bull by the horns.

The original idea of the spreadsheet was simple. Its job was to carry out, quickly and efficiently mathematical, calculations which would otherwise take aeons to work out. For example, if you fed in the daily sales of a product a spreadsheet could compute how much weekly, monthly and yearly profit and turnover has been made over a certain time span and make accurate predictions on future sales accordingly. Sure a human could carry out the same calculations but a spreadsheet would complete the task much faster. And besides, why bother with long time-consuming calculations when you could set a program to do it for you and go off, have a cup of coffee and read your favourite magazine instead.

Spreadsheets are more than just number crunching machines though, you can now create pretty and informative graphs to provide pictorial representation of data, while basic programming (macros) have also been seen in Amiga spreadsheets. *TurboCalc* can do all this and more and it claims to have set new standards for Amiga spreadsheet programs.

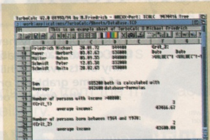
The illustration shows just what *TurboCalc* offers, but how fast is it and is it any good? Well, *Turbo Calc* was written in *Assembler* and as a result is very fast, the cursor moved around the large spreadsheets at a very fast and responsive rate. Also, apart from being fast, it is reliable. Data entry is, perhaps, a vital consideration when performing calculations – if entering data is a long laborious task, it can make the program irritating to use. *Turbo Calc*, however, is extremely fast and had no problem keeping up with my rather rapid typing.

CONCLUSION

TurboCalc is a fast, reliable and professional application and is likely to sell well over the coming months. All in all this is a great product, well worth the money and highly recommended.

There are a couple of minor niggles though, for example, it should be able to import *Lotus 1-2-3* (until very recently the PC industry-standard spreadsheet, with huge numbers in use around the world). It definitely needs some form of Undo operation too. It can be incredibly irritating if you have just spent hours keying in a long list of figures only to have to retype them all if you accidentally hit the wrong key on the keyboard. I'd also really like to see the ability to customise the toolbar – a facility all modern programs should have.

These niggles aside, however, *TurboCalc* is a very powerful business program that along with *FinalWriter* shows that the Amiga can still do more than just create pretty pictures.



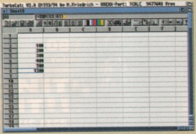
```
TurboCalc V2.0 ©1993/94 by M.Friedrich - AREXX-Port: TCALC  9474416 free
work:applications/TurboCalc/Sheets/DataBase.TCD
A1   This is an example sheet of TurboCalc © Michael Friedrich
 9  Friedrich Michael  20.01.72   $44000          Crit_2:
10  Mayer     Herbert  03.07.63   $36000          Date     Date
11  Müller    Anton    05.09.55   $40000          >VALUE("1 <VALUE("1-1
12  Schmidt   Peter    12.05.58   $32000
13  Schmidt   Anita    20.02.65   $50000
14
15
16  Sum                $85200 both is calculated with
17  Average            $42600 database-formulas
18
19  Number of persons with income >40000:
20  <Crit_1>                                   3
21          average income:             47466.67
22
23  Number of persons born between 1964 and 1970:
24  <Crit_2>                                   2
25          average income              42600.00
26
```

DATABASE

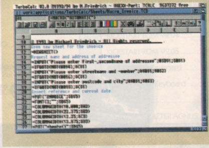
The program includes a reasonable, but simple, database with record search, copy, and delete. Not outstanding but capable nonetheless.

USER INTERFACE

Full Intuition support with standard Amiga menus and windows, plus Toolbar, backed up with comprehensive keyboard shortcuts. The Toolbar can not be customised in this version, although this is planned for the future.



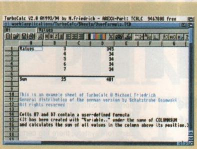
```
TurboCalc V2.0 ©1993/94 by M.Friedrich - AREXX-Port: TCALC  9477640 free
Sheet0
A8   =SUM(A3:A7)
 1
 2
 3    100
 4    200
 5    300
 6    400
 7    500
 8   1500
```



```
TurboCalc V2.0 ©1993/94 by M.Friedrich - AREXX-Port: TCALC  9637272 free
work:applications/TurboCalc/Sheets/Macro_Invoice.TCD
A1   =MACRO("AUTOMATIC")
 9
10  © 1993 by Michael Friedrich - All Rights reserved.
11  Open new sheet for the invoice
12  =NEWSHEET()
13  Request name and address of addressee
14  =INPUT("Please enter first-,secondname of addressee";#$B$1;$A$1)
15  =IFGOTO(NOT(#A14);$C$1)
16  =INPUT("Please enter streetname and -number";#$B$1;$A$2)
17  =IFGOTO(NOT(#A16);$C$1)
18  =INPUT("Please enter postcode and city";#$B$1;$A$3)
19  =IFGOTO(NOT(#A18);$C$1)
20  Insert reference and current date
21  =PUT("INVOICE";$B$5)
22  =FONT(3;"";$B$5)
23  =COLUMNWIDTH(10.000;$A3)
24  =COLUMNWIDTH(22.375;$B3)
25  =COLUMNWIDTH(12.25;$C3)
26  =COLUMNWIDTH(13.875;$D3)
27  =PUT("sheets(Y";$B$5)
```

PROGRAMMING

TurboCalc has a comprehensive programming language built-in. With this, complete mini-programs can be written within the spreadsheet. These programs can control the windows and menus, display messages and ask for input as well as controlling the actual mathematical calculations of the spreadsheet. The programming language syntax includes loops and if/then structures, and variable declaration. Macros can also be created and run using these programs. An *ARexx* port allows other Amiga software titles to access *TurboCalc*, and vice versa.


TurboCalc V2.0 ©1993/94 by M.Friedrich - AREXX-Port: TCALC 9467880 free

work:applications/TurboCalc/Sheets/UserFormula.TCD

A1 Values

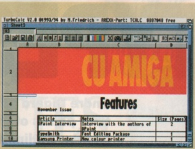
	A	B	C	D
1	Values	3		345
2		4		34
3		5		34
4		6		34
5		7		34
7	Sum	25		481

This is an example sheet of TurboCalc @ Michael Friedrich
General distribution of the german version by Schatztruhe Ossowski
All rights reserved

Cells B7 and D7 contain a user-defined formula
(It has been created with "Variable.." under the name of COLUMNSUM
and calculates the sum of all values in the column above its position.)

NORMAL SPREADSHEET

TurboCalc, although not as big as *ProCalc*, has a huge range of mathematical functions. These are used to perform calculations on data in other cells to produce results which can then in turn be acted upon. Functions are supplied for trigonometrical, mathematical and financial calculation, date/time and spreadsheet interrogation, database facilities and text processing abilities. There are 100 functions in all.


TurboCalc V2.0 ©1993/94 by M.Friedrich - AREXX-Port: TCALC 8887048 free

Sheet3

CU AMIGA

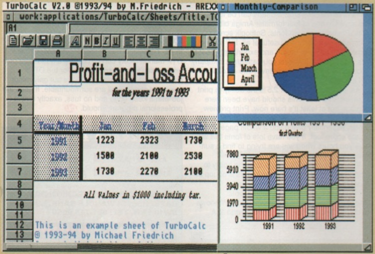
Features

November Issue

Article	Notes	Size (Pages)
DPaint Interview	Interview with the authors of DPaint	2
TypeSmith	Font Editing Package	1
Samsung Printer	New colour printer	1

FORMATTING

Not only can *TurboCalc* handle all the normal spreadsheet number and currency formats, but the contents of cells can be set to any font, size, and colour. A basic selection of attributes (bold, italic and underline) can also be applied. In addition to this, individual cells and groups of cells can be framed (ie a border added) to highlight them or create forms.


TurboCalc V2.0 ©1993/94 by M.Friedrich - AREXX

work:applications/TurboCalc/Sheets/Title.TC

Profit-and-Loss Accou

for the years 1991 to 1993

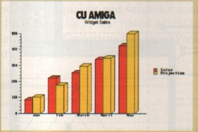
Year/Month	Jan	Feb	March
1991	1223	2323	1730
1992	1500	2100	2530
1993	1730	2270	2100

All Values in $1000 including tax.

This is an example sheet of TurboCalc
@ 1993-94 by Michael Friedrich

GRAPHS

The data in the spreadsheet can be easily converted to graphs, with column, line, step, bar, point or pie diagrams all possible. The graph can have headers, footers, legend and axis labelling and can be finally be saved out as an IFF for use in any other Amiga graphics package.



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EASE OF USE ◆◆◆◆◆◆◆◆◆◆93%
Outstanding, the intuitive design and fast response make it fun to use this program.

VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆85%
Very powerful for the money, I'd expect it to be priced a lot higher.

EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆90%
Fast, capable and powerful.

FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆92%
A full programming language, ARexx, macros what more could you want.

INNOVATION ◆◆◆◆◆◆◆◆◆◆89%
The tried and tested technology of the spreadsheet updated with the trappings of modern Amiga applications.

> *The best new spreadsheet available for the Amiga.*

OVERALL 94%

TYPESMITH 2.5

TOP RATED

André Digard gets to grips with the finer points of the latest version of the popular outline font editor.

Trying to find the ideal font for your latest creative efforts can often be a chore. You know how it is, you can spend hours going through all of the various fonts in your collection. Then, horror of all horrors, the only suitable font turns out to be a PD one with a few duff characters in it. Now you can all breathe a collective sigh of relief as *TypeSmith* comes to the rescue.

With *TypeSmith* you can edit those nasty characters into beautifully-crafted letters which hold their own with the best commercial efforts. It provides all of the tools you need to manipulate a font into shape, letting you do anything from minor adjustments to starting again from scratch. *TypeSmith* holds a unique position on the Amiga in that it is the only outline font editor available, though it is easily good enough to see off any competitors on other machines.

When you first load the program you are presented with a quite disappointingly simple screen. There is a large toolbox on one side but it only has a few tools and the menus seem rather limited. However, don't be fooled *TypeSmith* has a lot of tricks up its sleeve. The toolbox may be spartan but fonts are extremely simple creatures, they don't need many tools to manipulate them. The menus hide a wealth of requesters and features which should really bash your fonts into shape.

NEW FONT FEATURES

Just about every aspect of font creation is covered, whether you just want to put together a simple bitmap font or create a Postscript extravaganza. Amongst the best features is the program's ability to automatically trace a bitmap font into an outline font. The results nearly always have to be tidied up by hand but it still saves an incredible amount of time. You should be warned though that any font below about 30 point is almost certain not to trace in properly and will have to be done by hand. One new feature in this version of *TypeSmith* is 'Reduce Points' which is a godsend if you use the autotrace feature. Reduce points removes all of the font's extraneous points, giving you a neater outline and speeding up the time taken to tidy the font up.

TypeSmith covers all the bases when it comes to bitmap font creation and editing, you can create a font of almost any size. Bitmaps can be loaded and saved in one of four formats; Amiga bitmap fonts; Postscript screen fonts; Softlogik screen fonts; and, perhaps most useful of all, IFF screen format. The ability to import and export fonts as IFF files is wonderful. It means you can turn a company logo, cartoon picture, or whatever into an outline font character.

Another new feature in *2.5* is the ability to print a preview of a font. This should have been here long ago but at least it's here now. Print preview sends the whole character set to any preferences printer, essentially giving you a whole page showing the entire font. If you have lots of fonts this will save you hours when you are trying to find a suitable one for the task at hand.

The major part of this upgrade is the ability to import and export TrueType fonts. This is on top of *TypeSmith*'s ability to handle Postscript, Compugraphic and Softlogik outline fonts. TrueType is the standard font system for Windows on the PC and is also used by *Wordworth 3*. A surprising omission from this upgrade is Nimbus Q, the font system used in *Final Writer* and *Final Copy*. Whilst Nimbus Q may not be the most commonly used font system, there are certainly enough *Final Writer/Copy* users to warrant its support. This isn't too worrying though as both word processors can use Compugraphic and Postscript fonts.

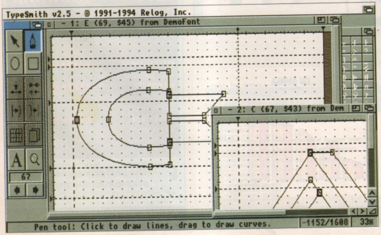
The ability of *TypeSmith* to import and export different font formats is probably its biggest selling feature. Realising this has lead to some extremely useful automation features in the program, such as the ability to convert an entire directory of fonts from one format to another. The program also supports the use of *ARexx* and provides some useful scripts.

MINOR GRIPE

My only major gripe about *TypeSmith 2.5* is the upgrade manual which is supplied on disk. With the price of *TypeSmith* it seems reasonable to expect a properly printed 'New for Version 2.5' addenda at the very least. After all, *TypeSmith* is priced well into the professional software bracket.

CONCLUSION

In all, *TypeSmith* has its own little corner of the DTP market nicely carved out. It's a good solid program which is an absolute must for the DTP professional. There are omissions but only minor ones and certainly all are surmountable. It does the job with a keen edge and no fuss, exactly how a professional program should. CU



TypeSmith v2.5 - © 1991-1994 Relog, Inc.

- 1: E (69, $45) from DemoFont

- 2: C (67, $43) from Dem

Pen tool: Click to draw lines, drag to draw curves.

-1152/1608

33%

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EASE OF USE 95%

Simple and effective tools, fast and efficient menus. The whole thing is very well thought out.

VALUE FOR MONEY 85%

The only one of its kind but perhaps a little too firmly into the professional price bracket.

EFFECTIVENESS 98%

Possibly the most important DTP addition. A superlative example of good design.

FLEXIBILITY 89%

Only Nimbus Q is missing, otherwise Typesmith is supremely comprehensive.

INNOVATION 91%

Genuinely useful new features such as 'Reduce Points' make for a worthwhile upgrade.

> The essential sidekick for any DTP program.

OVERALL 93%

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ENCRYPTION SOFTWARE

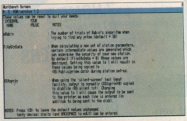
Ssshhh ... John Kennedy will say this only once ...

Heard of the clipper chip? It's the US government backed cryptography system which they want everyone to use. It's extremely secure, but not to the US government who designed a back door into it, and are therefore able to crack it.

Not everyone is happy with this arrangement, and there are several programs which use the so-called 'public key' methods for encoding messages. In fact, government agencies don't like this (they like to know what's going on but only for our own good, of course) and tend to get shirty when someone writes a program that they can't crack.

The most famous of these programs is *PGP* (Pretty Good Privacy), which is available on a wide variety of computer platforms. There are commercial programs which will achieve the same aim (with better and worse results) and now there is one for the Amiga. The program doesn't actually have a name (it's known as RSRSA20 to its friends), and it requires an Amiga with a 68020 or better and a printer in order to operate. Once loaded, there is a short delay whilst internal tables are calculated, and you are then presented with a menu. From here you can choose from the options to encode or decode a file and change various settings.

The default settings may be changed to allow input to be mirrored to the printer for checking.



```
Workbench Screen
R. S. RSA version 1.2
These values can be reset to suit your needs.
 INTERNAL      YOUR
  NAME         VALUE        NOTES

nRabin                    : The number of trials of Rabin's algorithm when
                            trying to find any prime (default = 30)

FileStrData               : When calculating a new set of station parameters,
                            certain intermediate values are generated which
                            can undermine the security of your new station.
                            By default (FileStrData = 0) these values are
                            destroyed. Setting this value to 1 will result in
                            these values being copied to
                            <RS:Public/prime.data> during station set-up.

SStoprin                  : When using the 'silent-screen' text input
                            facility, output is normally (SStoprint=0) copied
                            to diskfile <RS:silent.txt>. Changing
                            this value to 1 will cause the output to be sent
                            to the printer as each line is entered (in
                            addition to being sent to the disk).

NOTES: Press <CR> to leave the default values unchanged.
       (only decimal digits (and BACKSPACE to edit) can be entered.
```

For example, a text file or typed message can be encoded using your own personal 'key', and the resulting file can then be saved to floppy disk. From here it can be posted or transmitted electronically to the receiving site, where another copy of the program is running.

Here, using another 'key', the decoded output is sent directly to the printer. Unfortunately you may have to change the default printer settings, as the software (rather stupidly) doesn't deal with carriage returns in the normal way.

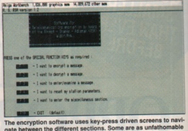
Whilst the message is en route, no-one who intercepts it will be able to discover the contents without access to the secret key. The program is therefore ideal for sending sensitive information either by post or through public electronic networks.

PAPER WORK

As far as the documentation goes ... oh dear. The spiral bound tome bears an uncanny resemblance to a university thesis, even going so far as to have some photocopied performance graphs included at the back. The text is a shambles of cryptic anecdotes, general notes of security, sometimes contradictory ramblings and an extremely poor tutorial section. There is no denying that some sections make good reading, but as an instruction book for a software package it sucks. For a product which is designed to make encryption a tool for business and personal use, it falls flat on its face. Students of cryptology will find it both fascinating and frustrating, there are no reference or bibliography sections.

The software is tediously written to ignore all the niceties of the Amiga operating system, and instead of a Windows, menus and requesters-based system opens a single un-movable window, driven solely by function key presses. In use it is un-necessarily complicated.

However, this isn't an arcade game which requires flashy graphics – it's a tool for taking a text file and ensuring no-one else can read it. It is (apparently) an implementation of the Rivest-Shamir-Adleman algorithm, which means it offers a



```
Amiga Workbench  1,826,808 graphics mem  14,389,672 other mem
R. S. RSA version 1.2

             Software for
  Telecommunications encryption by means
  of the Rivest - Shamir - Adleman (RSA)
              algorithm.

PRESS one of the SPECIAL FUNCTION KEYS as required :

          - I want to encrypt a message.
          - I want to decrypt a message.
          - I want to enter/examine a message.
          - I want to reset my station parameters.
          - I want to enter the miscellaneous section.

          - EXIT  (default)
```

The encryption software uses key-press driven screens to navigate between the different sections. Some are as unfathomable as the text it encrypts.

Class B security system; "uncrackable by any large multi-national company, but might be broken by a national intelligence agency prepared to commit several months and £50,000+ to the task". The author can provide a Class A system if required for additional cost. The software costs £200 for the Class B system, and £500 for a Class A system.

CONCLUSION

There is simply no way that I can test if the claims of this program are correct. Like the author, I have a masters degree (I wonder if he got his in cryptology with this as his thesis?), but unfortunately mine is not in mathematics. To sit down and work through the appendix on number theory would take me a while, and at the end of it I still have no guarantee that the program is actually based on the maths.

On the other hand, to the best of my knowledge at least, the author seems to know what he is talking about. He claims that the program is one of the most powerful software based systems available to the public, and also hints that dark forces (that is, Scotland Yard) may be interested in his plans – so obviously you should buy now before you need to arrange visiting rights. The public domain program PGP is probably adequate for anything that I will need to send, but if you do need to move sensitive material around, contact the author. CU

ENCRYPTION SOFTWARE £200/£500

A500 ☒	A500+ ☒	A600 ☒	A1200 ✓
A1500 ☒	A2000 ☒	A3000 ✓	A4000 ✓

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EASE OF USE ◆◆◆◆◆◇◇◇◇◇ 50%

A great step backwards for Amiga software.

VALUE FOR MONEY ◆◆◆◆◆◆◆◇◇◇ 70%

How much could you loose if your data fell into another's hands? This is your measure of value for money – it's up to you.

EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◇ 90%

I don't know but I'm prepared to trust the author.

FLEXIBILITY ◆◆◆◆◆◆◇◇◇◇ 60%

Only encrypts plain text and only a file at a time.

INNOVATION ◆◆◆◆◆◆◆◆◆◇ 92%

Whether due to paranoia, or a genuine desire to maintain freedom of speech, programs like this should be given recognition.

> ‘ One of the most difficult to review programs ever. Poor implementation of what could be a fascinating concept. ’

OVERALL 70%

ENCRYPTION – WHAT IS IT, WHAT DOES IT DO?

It used to be solely in the realm of governments and embassies, but these days it's the high-powered business users who need to keep tabs on their data. Records of sales, details of emerging patents, (bribes to officials even, though this couldn't happen in our fair country, could it?) – all this text-based information simply cannot fall into the hands of rival companies.

There are many stories regarding the lengths to which spies will go to in order to uncover data – including parking special TV detector vans outside offices and remotely reading the text as it appears on the VDUs inside with special equipment.

Also, with the amount of information being transmitted via the Internet, some reliable way of sending data (such as credit card details) is essential.

One solution is public key cryptography, which works like this: Agent 'X' lets everyone know a special 'key' – a random collection of text and numbers. This is the public key, which has been calculated by his encryption software. You may have seen examples at the bottom of Email messages.

Anyone wishing to send 'X' a message, takes the text of their message and processes it using the encryption program and the public key. Now the message is in a coded form, and the only one who will be able to read it is User 'X', because only he has the secret key associated with the public key. Both keys are needed to decode the file.

This form of encryption is so good that it would cost many thousands of pounds and a great deal of time to decode and many governments are wary of it being used by criminals, although some would say they simply don't want to be unable to keep tabs on their citizens.

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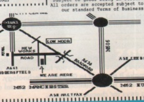

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Xcad

X-CAD is one of the Amiga's most powerful applications and now the entry level version of this powerful program is available as a budget program well below its original price. Andy Leaning takes a second look at it.

CAD programs are every budding architect's dream. They produce pin point accurate diagrams which enable users to design and visualise real-life items such buildings and objects. And, therefore, are extremely useful as plans for builders to follow. *X-CAD Designer* is one such program. It is a tremendously powerful and flexible application. Originally, the program sold for £139 but it's now available for considerably less. So just what does this lower-price version offer?

UNIQUE STYLE

Perhaps the first thing Amiga users will notice about the program is that it has its own unique presentation and method of operating. This is because *X-CAD* can be used alongside other *X-CAD* programs across a range of computers so a standard look and feel is vital.

Also, as the program is designed to produce plans and illustrations that are completely accurate to real life dimensions, the user interface is designed to allow the easy and rapid entry of numbers at practically every point in the program. This naturally means the program is not as easy as a normal drawing or painting program but it also ensures that the program is very good for its intended function.

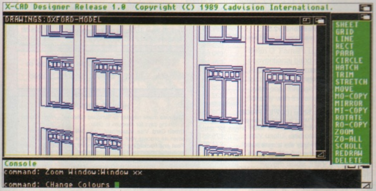
SOPHISTICATED

X-CAD offers a variety of basic drawing functions (line, rectangle, circle) with which you can make up sophisticated plans and diagrams. These functions can be on multiple layers, and once added can only be manipulated if you specify the layer being worked on. There are then a number of further tools which allow further manipulation of the basic forms (copy, rotate, angle, trim). For instance you could draw a square, then remove one edge, and add two diagonal lines making a roof. Into this you can draw a square forming the window and then duplicate this around adding three additional windows. This is all done to precise measurements, and there are a wealth of features to add information to the diagram providing all the details needed for someone working from the illustration, an example being adding dimensions (lengths or lines, angles in degrees etc).

The commands are accessed via a menu strip down the right-hand side of the screen, clicking on these then brings up a series of further options which modify the basic function (specifying for example the line thickness and length) alternatively you can click on the tool bar and then draw directly onto the page. Otherwise you can type in commands directly, giving the parameters as you type, although more long winded at first, once mastered this is a very rapid and precise method of creating images.

This style of operation takes a little getting used to and I'd much rather have a simple click and draw style interface with the option to enter numeric parameters as needed. It could certainly do with having more real-time visual feed back when manipulating previously drawn graphics, you don't get the opportunity to move lines around and see them move, it's more a case of select the operation, tell it which objects to affect and then it positions them instantly. Not a major disadvantage but less intuitive.

X-CAD Designer in action.



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DRAWINGS:OXFORD-MODEL

```
command: Zoom Window:Window xx
command: CHange Colours
```

CONCLUSION

X-CAD Designer is a powerful, and flexible program and the price it's now available at makes it a definite bargain. For real CAD applications it's a good, solid program. For normal 2D illustrations although unusual in operation, and fairly difficult to master, *X-CAD Designer* can create illustrations that would otherwise be difficult to generate with equal quality and does so for a lot less cash than any other Amiga 2D package. CU

SMALL WORLDS

Whilst using X-CAD Designer I was also working on a project in *LightWave* (*X-CAD* with my left hand, LightWave with my right hand!) and it struck me how similar in core function these two programs are, although their user interfaces differ considerably.

But the relationship between CAD programs and 3D rendering programs goes much further. CAD, as I said the start of this article, is about designing and visualising objects. It's not surprisingly therefore to find that CAD programs are working their bottoms off to add ways of letting users see their designs in 3D, a la some form of 3D rendering ability.

Not surprisingly the bigger versions of *X-CAD* now support 3D creation and rendering, allowing buildings etc to be designed in and then viewed in glorious 3D. Meanwhile the PC equivalent of *LightWave* (*3D Studio*, only £3,500!) is developed and sold by an company called AutoDesk - who just happen to be the developers of AutoCAD – a market leading CAD package and *X-CAD*'s big rival. In fact the next version of AutoCAD will use *3D Studio* as its rendering software. It's a small world!

This relationship between CAD and 3D is also filtering through to other 3D programs, the new 3D terrain creation program (World Construction Set – see news pages) can load AutoCAD objects letting you add man-made objects (roads etc) to your landscapes!

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READERS' MUSIC

THE HILLS ARE ALIVE...

Tony Horgan takes a look at some demo tapes and commercial releases from CU AMIGA readers.

NEW DREAM NATION

DJ mixing is the style here. Current dance records have been used as source material, sampled in large chunks, and mixed together. The slant is towards house and garage. As the producer admits, these are probably not commercially viable, due to the large number of copyrighted samples. Even so, it's worthwhile as a demonstration of what can be done.

Sound quality ranges from good to bad, settling down somewhere in the middle. When the mixes work, they're pretty good, but too often they're spoilt by loops running out of time with each other, and bad clashes of pitch and tuning. Good fun though.

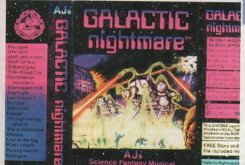
Contact: DJ Ballistic, Future Groove Records, 2b Oval Road, Erdington, Birmingham B24 8PL.

GALACTIC NIGHTMARE

Production quality on this one is excellent. It wasn't actually written with the Amiga though, but it is so good we thought it deserved a mention. It's a "Science fantasy musical", that tells a story with the use of music and spoken interludes. According the to composer, Alan Jefferson, it took several years to produce, with limited equipment and no sequencer.

After an excellent start, the synth-dominated music gets a bit cheesy, and slips into mid-80s style new wave pop in places. It's at its best when it's dark and gloomy. Copies of the 98 minute tape are available from the following address for £6.95. This price includes a free storyfile and a colour poster.

Contact: Alan Jefferson, 11 Cedarwood Drive,
Springhead Grange, Hull HU5 5HZ.
Tel: 0482 563440.



FANTALYST

Fantalyst has just got a 12 inch vinyl release on Condor Records. The Fantalyst track shares the EP with three others from different artists. This isn't your average dance record by a long shot, taking influences from all over the world to build up its patchwork of percussion and tinkly melodies made from Indian-style twangs.

Fantalyst also supplied a tape containing other tracks. Strange tracks they are too. While some sound a bit like Jean Michel Jarre with their bleepy beats and tinkly bouncy tunes, others are very experimental (that's putting it politely). Then there are those that sound like the music you get in the gaps between the school's programmes on TV. Sound quality on the tape isn't too hot, but it's better on the EP. Fantalyst has got itself a commercial release with nothing more than an Amiga, *Protracker 1.1* and a Megalosound sampler, and if only for that alone, should be congratulated, and should encourage others to keep plugging away. Copies of the EP are available for £3.99 from the following address.

Contact: Fantalyst, 70 Station Road, Ditton, Aylesford, Kent ME20 6A.
Tel: 0622 718164. Make cheques payable to Brian Bennett.

FANTALYST
SIDE ONE...

LOBOTOMANIA

Hailing from Italy, Lobotomania supplied four mixes of a track called Technocop. In its original form, it's a bass heavy techno stomper, although to be honest there's not that much stomp in it. Most of the sounds are familiar from Amiga demos and old style hardcore techno records. None of this is particularly memorable or exciting, but there's plenty of Terminator-style speech, gunfire and explosions to prick up your ears. There doesn't seem to be much variation from one mix to another. A bit bland in general, but not bad.

One point I should mention is the order of the tracks on the tape. The last mix is considered by Lobotomania to be the best. If you're releasing a demo tape, always put your best track at the start of side one. People are lazy, and won't bother to listen through to the end if they don't like the start.

Contact: Alessandro Melazzini, via Valeriana 28, 23100 Sondrio, Italy.

LOOK BACK IN ANGER

Sean O' Farrell's Look Back In Anger is now a one man band after slimming down from a conventional band set-up. This tape 'It's the Ghosts', was created with an Amiga 1500, an Audio Imager sampler, an Alesis Quadraverb (outboard multi-effects unit), and *OctaMED 5* for the sequencing. The 17 tracks on the tape cover a wide range of styles, from jangly indie guitar pop, through to technoid dance music. The rock guitar rhythms sit surprisingly comfortably with the analogue synth loops. Added interest is injected with various vocal samples – both sung and spoken.

Unfortunately, all of the tracks have been put through the Quadraverb. The tracks have been fed through the reverb and phaser effects, which ruins them. Reverbs and phasers are very useful, and can vastly improve a track's sound, but only when used appropriately. If nothing is left 'dry' (with no effects), then the result is a cluttered, muddy sound. Background noise also creeps up to intrusive levels.

Reverb aside, there are some good ideas, and good tracks on the tape. Some lack direction, and the hooks are in short supply, but other than that, these are good, poppy tunes that could be worth expanding on. Just hold back on the effects!

Contact: Sean O' Farrell, 18a St John's Way, Archway, London N19 3RR.

SAMSUNG SP-2417

DOT MATRIX PRINTER

One of the biggest computer peripheral and consumer electronics companies in the world has launched a low cost, and very quiet colour dot matrix printer. Andy Leaning takes a peek.

Samsung have figured quite a lot in the recent Amiga press concerning their involvement as a possible buyer for Commodore. Not much has happened in this regard but all this palaver hasn't held up their R&D teams. The Korean-based electronics giant (they're the world's largest manufacturer of monitors and DRAM memory) has now launched an aggressively-priced dot matrix printer.

The new printer – the SP-2417– is a fairly standard looking affair. Very similar to the rest of its class in design. It has a low, oblong-shaped profile, a dark plastic cover over the recess and a paper feed knob on the right-hand side. Inside this fairly typical design is a fairly typical 24-pin dot matrix printer, pumping out 160 characters per second in draft (53 in letter quality mode), with a 14K buffer.

There are a series of rubber push buttons on the front to control various aspects of its operations, whilst the Centronics interface is on the right-hand side, and the on/off switch is found on the front. Paper can be either tractor or friction fed, with a pull-out front paper tray to making loading paper far simpler than most.

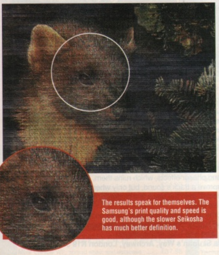
Setting up itself is pretty straightforward. However, unlike other printers where the colour kit is either prefitted or installing it is a very simple procedure, fitting the colour kit into this one is a bit of a bind. The Samsung model involves a complicated procedure where a ribbon cable needs to be fed through a small gap, screws need to be undone and then redone; need I go on?

However, once the printer is finally set up, complete with clour kit it's easy enough to use. The buttons on the front provide all the usual functions, paper loading, font selection (Gothic, Roman, Elite, Sans Serif, Script, and Courier) etc and a quick self test mode.

But most of the time you'll control the printer from the Amiga and won't need to use these, apart from loading paper and turning it on line.

The Samsung SP-2417 – a good sturdy printer.

Once again we have used our furry friend as a benchmark for printing quality.



The results speak for themselves. The Samsung's print quality and speed is good, although the slower Seikosha has much better definition.

AND THE CU AMIGA PANEL SAYS

In July CU AMIGA introduced a new set of printer bench tests. These were designed to give an accurate and impartial test of the speed and quality that a dot matrix printer could achieve. There were two tests, the first was to run a custom written Amiga bench test program that sent a set series of instructions to the printer. By timing how long the printer took to print these characters we have an accurate figure of how fast it is. These can then be compared to results from other printers to give an accurate assessment of how fast the printer is. The second test was to show a set panel of judges a sample printout and ask them to rate it, these scores were averaged, again giving an overall figure.

SPEED RESULTS

Samsung's printer turned in a respectable 41 seconds in The CU AMIGA bench test program, compared to 40 seconds for the Citizen ABC and 43 for the Seikohsa SL-96.

The Citizen ABC 24 – one of the leading contenders.

PRINT QUALITY

For print quality our panel thought that its graphics output was a little faint, and suffered from excessive banding, whilst text fared a little better, although a little rough around the edges. The panel awarded it 5 out of 10 for graphics, and 4.5 for text.

ALTERNATIVES

CITIZEN ABC 24. Reviewed in July 1994, a well thought out and well built printer, 86% Price: £139 incl VAT.

SEIKOSHA SL-96. Reviewed in July 1994, good all round home or small office printer, 89% Price: £175 incl VAT.

PRINTER DRIVERS

Unlike the existing champions of Amiga printers, Citizen, Star and Seikosha, Samsung don't include any dedicated Amiga printer drivers with their model.

Although you can print from the Amiga using a standard Epson LQ driver, this doesn't deliver particularly outstanding prints. If Samsung released a dedicated Amiga printer driver I'm sure much better quality printouts could be achieved.

SEIKOSHA SL-96
SEIKOSHA
Samsung's printer doesn't quite beat the Seikosha SL-96 – except on price.

PICTURE QUALITY

Pictures produced with the printer were notably faint, and much darker than they should have been. They also suffered from serious banding, particularly over blacks and deep purple colour areas. Text prints were again faint, although they were clean with little interference from surrounding colours. We felt, however, that they were too faint for serious use.

QUITE QUIET

One area where this Samsung really scores points over the competition is in the amount of noise generated as it prints, or rather the lack of it. The SP-2417 has got to be one of the quietest printers I've ever heard. In fact during the testing I had to check several times that it was still working – admittedly I was across the room, but you don't expect a dot matrix to be this quiet!

CONCLUSION

The Samsung SP-2417 is a reasonable little printer and would be very suitable for a home environment, especially given its family friendly noise levels. However there are several problems that prevent me from recommending it over the competition.

Firstly, and most importantly, is the fact that its print quality is not as good as the Seikosha SL-96, although it's close to the Citizen ABC. Secondly, the fitting of the colour kit needs a radical overhaul, it's far to difficult compared to the plug in and go approach of competing models. And finally, our speed tests showed it to be reasonably quick, whilst quality was average.

One redeeming feature, however, is the noise level. It's very quiet – impressively so! When used in the CU AMIGA offices it couldn't be heard across the room, the same certainly couldn't be said for the Citizen ABC.

Overall, the Samsung SP-2417 is a good but not an outstanding printer – unless you have a bad hangover, then you'll really appreciate its quiet operation.

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EASE OF USE ◆◆◆◆◆◆◆◆◆◆◆80%
Once installed fairly painless, but fitting that colour kit ....

VALUE FOR MONEY ◆◆◆◆◆◆◆◆◆◆◆86%
Reasonable for what it offers, but watch out for lower prices in advertisements.

EFFECTIVENESS ◆◆◆◆◆◆◆◆◆◆◆80%
Not bad, but would be a hell of a lot better with a dedicated driver.

FLEXIBILITY ◆◆◆◆◆◆◆◆◆◆◆85%
Suitable for home, but not it is really suitable for office environments.

INNOVATION ◆◆◆◆◆◆◆◆◆◆◆70%
Nothing really new here, although it's remarkably quiet.

> *A solid little printer.*

OVERALL 80%

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WP2
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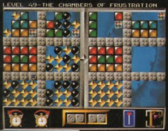

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Amiga Computing - 90% / GAMER GOLD, The One Amiga - 84%, Amiga World - Grade "A".

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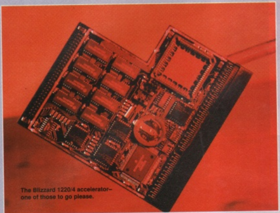

The Blizzard 1220/4 accelerator– one of those to go please.

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1. **How much is the Epson Stylus?**
2. **What is Gordon Harwood Computers' telephone number?**
3. **What is the name of the SoftWood grammar checker?**

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Blizzard 1220/4: This little beast will accelerate your A1200 to three and half times (with a speed of over 4MIPS) its normal speed thanks to a nippy 28MHz 68020 processor. We rated this as the best budget RAM and accelerator in September, scoring a very impressive 89%.

All these can be yours by simply answering the above questions.

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1. No employees of EMAP, SoftWood, Blizzard or Epson may enter.
2. The editor's decision is final, and NO correspondence will be entered into.
3. All entries must be on a postcard, and postcards from other magazines will be disqualified.
4. Entries will only be accepted by post – no personal deliveries – and must arrive at the CU AMIGA offices before December 18th 1994.

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UTILITY DISKS

☐ ^ + **V16 AQUARIUM**
Turns your screen into an eyecatching Fish tank.

☐ ^ + **V298 NORTHC v1.3**
Complete C language with all files needed (2)

☐ ^ + **V301 EYE OF BEHOLDER**
Book with Maps, Strategy & Solution.

☐ ^ + **V490 MESSY SID v2.0**
Reads MS-Dos disks, Transfer any text files to & from an IBM PC, ie PC to Amiga

☐ ^ + **V523 DICE C COMPILER**
Matthew Dillons full featured powerful C compiler & environment system. Complete C language (2)

☐ ^ + **V536 CATALOGUES**
A collection of utilities used to Catalog all your disks/Videotapes and audio tape collections (2)

☐ ^ + **V575 HOME BUSINESS**
Based on word processing, Data Management, Spreadsheets, Accounts & Printing. (6)

☐ ^ + **V662 DCOPY v3.1 PRO**
You can select the speed of the disk drive, Copy modes, Dos, Nibcopy, Ver & safecopy

☐ ^ + **V719 FREECOPY v1.8**
Removes protected games copy protection so that the user can install them on HD.

☐ ^ + **F691 PRO C MANUAL v3.0**
Is the largest collection of utilities, documents & examples for C, It consists of six manuals, with over 40 chapters (5)

☐ ^ + **V786 PASCAL**
Everything needed to program in Pascal.

☐ ^ + **V787 PROGR. TOOLS**
GadTools to design your user interface to your own programs using all of DOS 2.0+

☐ ^ + **V794 GRINDER**
Complete graphic conversion package that supports GIF, JPeg, Atari St, PCX, Targa, TIFF, Ham-E and IFF Formats

☐ ! - **V817 A500P EMULATOR**
As it sounds will let v1.3/v1.2 owners run WB v2.x+ software WITH-OUT any need to purchase the Workbench v2.x chips.

☐ ^ + **V821 SNOOPDOS v1.7**
Monitors Dos calls to see what library, devices, fonts are required if a program won't load

☐ ^ + **V928 LITTLE OFFICE**
Has a Word Processor and others programs to aid a small business or company.

☐ ^ + **V979 NCOMM v3.2k**
Is a comm-unications program based on Comm v1.34 with lots of very nice enhancements

☐ ^ * **V1017 POST v1.86**
An excellent Postscript interpreter for the Amiga which implements the full Adobe language (3)

☐ ^ ^ **V1021 (AGA) SCREENS**
Enhance your Workbench disks with backgrounds like these's. All pictures in full AGA colour.

☐ ^ + **V1022 LITTLE TRAVELLER**
Shows a world map, You can select any country for travel information, Zooms up another map with detail.

☐ ^ + **V1039 HARD DISK INSTALL**
If you need to install your A1200 HD then you need this set of disks which can do a low-level format and then install WB 3.0 (2)

☐ ^ + **V1041 DIGITAIL B.BOARD**
Full featured digitail circuit simulator

☐ ^ * **V1043 SUPER DARK.v2.4a**
A screen blanker like After Dark from the MAC

☐ ^ + **V1044 FANCY PRINTING**
Banner, Graph Paper v1.2 and Disk Print v3.59.

☐ ^ + **V1051 EASY CALC PLUS**
A spread sheet designed to be both easy to use and fast. Built in excellent help system.

☐ ^ + **V1056 DEVELOPER**
The official Commodore developers Kit for the Amiga. AmigaGuide & install utilities.

☐ ^ + **V1060 BOARD DESIGN**
Includes mCAD v1.26 and several terrific routines for the electronic enthusiast.

☐ ^ + **V1069 PRINTER DRIVERS**
Desk-jet 550c, 500, 500c, Ricoh HP1200, Canon BJ300, 130, LPB, 10e, PJ1080a HP Paintjet.

☐ ^ + **V1079 KEYBoaRD TRAINER**
Best Public Domain Typing Tutor.

☐ ^ + **V1093 PARNET SET-UP**
A two way network file system between two parallel ports, establish via two amigas. (2)

☐ ^ * **V1095 THE DEGRADERS**
If you have trouble running software on an A1200 or A4000/030/040 give this disk a try it will emulate the basic 1.3 rom better that any other software on the Amiga at present.

☐ ^ * **V1104 COLOURED ICONS**
Transfer your disks into colourful well presented works of art with this database of excellent icons

☐ ^ + **V1109 STAR VIEW**
Is designed to show graphically the positions of the stars and planets from any point on Earth.

☐ ^ + **V1110 FORCAST v2.01b**
Is a Horse Racing prediction program which uses statistical analysis of Major factors.

☐ ^ + **V1114 PRINT LABELs**
DocDump2.1, Envelope Print v1.2, Inlay Maker v1.4, MC master v1.1, Banner Press, Label Print

☐ ^ * **V1136 DISKSALV 2vv11.31**
is a disk structure, file repair come salvage or undelete utl. HDClick, is a hard drive menu.

☐ ^ ^ **V1137 (AGA) UTLs 4**
Test, BBlank, CheckAGA, CycletoMenu, Doublex, Force VGA, GIF Datatype, PKLudge, PPShow, Rend24, ViewTek and Verlauf.

☐ ^ ^ **V1138 (AGA) UTLs 5**
Degrader, Pow-Ray, AmigaToDouble, Card-MenuLast, Palette, Promotor, RomTagMem.

☐ ^ + **V1144 GRAPHICS**
JPEG files, DJPEGGui v37.1, Make Anim7, AGA Anim playback, SAnim-5 v1.1, S-PIC v1.2

☐ ^ + **V1161 GOALKEEPER v1.0**
Computer soccer administration program, Create your own Mini Football league upto eight teams.

☐ ^ ^ **V1164 (AGA) A1200 FIX DISK**
Contains all what you would need for getting disks to work on your new a1200 computer.

☐ ^ + **V1178 KS 3 EMULATOR**
This disk is a multi kickstart selection utility disk. You can select Kickstart 1.3 (34.005) Kickstart machine (as it is) Kickstart 3.0

☐ ^ + **V1179 FILE-O-FAX**
Designed for you to work at your own leisure without worrying about forgetting those important meetings, or names, address, tel Number's ect.

☐ ^ + **V1184 AMIGA DIARY**
Is a mouse driven diary capable of storing all persion events and is the solution to those forgotten birthdays, missed appointments

☐ ^ + **V1196 DESKTOP VIDEO**
Is a disk with making and editing your very own video master pieces. Excellent software

☐ ^ + **V1200 MAGIC W/B**
Is a selection of icons or items to enhance your Workbench screen and environments.

☐ ^ + **V1207 OCTASTUFF**
A new collection of utilities, scenic samples, some modules for use with the famous OctaMED

☐ ^ + **V1209 GNU C++ COMPILER**
Requires: HD 6Mb+, Disks consists of the latest version of the GCC environment, The compiler, driver, assembler, linker, header files, inline code generation of libearies. (3)

☐ ^ + **V1213 PROGRAMMING**
Contains the Programming languages like, Ace, AmigaE, AmigaEdo, SBProlog, BCPL4AMI, EGUI, Pascal and others (3)

☐ ^ + **V1219 THE AREXX GUIDE**
Full AmigaGuide document to teach you Arexx!! Tip filled with easy cross referencing.

☐ ^ ^ **V1221 (AGA) BLANKER**
BlitzBlanker has 14 different blankers all ready to show off your AGA machine!.

☐ ^ + **V1222 PANASONIC STUDIO**
Special printer Preferences editor and driver system for all Panasonic 9 & 24 pin printers.

☐ ^ + **V1223 CANON STUDIO 2**
Printer Preferences editor and driver system for 800&880, LBP A1-2, BJC800, BJ510-130.

☐ ^ * **V1227 GADTOOLS v2.2c**
Contains a collection of shareded libraries intended to provide programmers with new GadTools

☐ ^ ^ **V1229 (AGA) MAIN ACTOR**
(v1.53) A modular anim package with many features, IFF-Anim 5/7/8, IFF AnimBrush, PCX, playing from HD or in a window. (2)

☐ ^ + **V1236 INVOICE PRINTER**
Will print invoices onto your letterheads. Mach sort after. Ideally suited to a small business.

☐ ^ + **V1242 RE-ORG v3.11**
is a fast shareware disk optimizer for AmigaDOS.

☐ ^ + **V1243 IMAGE 2.0 OBJS**
Volumes 4 to 7 packed to bursting point of Images for use with that amazing program Image. (4)

☐ ^ + **V1247 TEXTURE MAPS**
in 320x200 JPEG format for use with any rendering programs, textures like Organic, Miscellaneous, Stone, Wood etc. (3)

☐ ^ + **V1250 SOLDERING**
Contains many useful tools for drawing good quality circuit diagrams, and also vero-board (strip board/solder board) lay-outs. complete system.

☐ ^ + **V1269 OCTAMED TUTOR**
A simple guide through the basics of this excellent music program. From OctaMED 3.x upwards

☐ ^ + **V1273 AMICDROM v1.7**
A CD-Rom disk filing system for the Amiga. It supports the ISO-9660 standard and will mount the drive as a dos device. You can even access files and directories on a CD.

☐ ^ * **V1277 STAR STUDIO**
Printer driver for controlling any printer printer.

☐ ^ + **V1278 MAIL-O-DEX**
An excellent way to keep names, addresses, Phone numbers, ect & then print them out.

☐ ^ + **V1279 PRINT-A-CARD**
Want to print a business card or any other type of card then this is the software for you.

☐ ^ + **V1280 DIVIDEND WINNER**
a pools prediction aid which will advise which numbers to enter on your coupon based on sequence prediction.

☐ ^ + **V1282 FOOTY v1.9**
sit back with your mouse-mat on your lap & keep track of whats happening in the leagues.

☐ ^ + **V1286 PRINTER DRIVERS**
Now also contains the program called sid for easy installation of the Printer Drivers.

☐ ^ + **V1303 SCALA PICTURES**
Pictures in 736x580 16 colour format for use with The program Scala. Theres about 15 pics in total and are very sharp indead. (2)

☐ ^ + **V1305 THE V.W.S v4.0**
VIRUS WORKSHOP. Was produced to get rid of all the viruses around. Takes over where BootX left off.

☐ ^ * **V1307 NETWORKING (3)**
Contains utilities to help aid in Networking your Amigas like AmigaNOS, DNet, Par/SerNet, also contains various update devices and libs.

☐ ^ * **V1310 GUIDES**
Contains AGAGuide, which gives full AmigaGuide information and Libs Guide is a Guide to the Amiga Libraries, find almost every Library.

☐ ^ + **V1311 CD ROM**
Contains a selection of CD Rom related utilities like CDTV Player v2.2, PlayCDDA, ReadCDTV.

☐ ^ * **V1313 GBLANKER v2.7**
Is a complete modular screen blanker package designed with DOS 2.04 or better in Mind. 14 Different Blankers and a message system.

☐ ^ ^ **V1318 (AGA) SWERVE**
Is a selection of images for use as backgrops all are in maximum oversan for best results.

☐ ^ + **V1319 MAXIFLIFE**
Enable you to take complete control over your finances. SPENDWIZE is a tool to assist you in maximising your return from your outgoing.

☐ ^ + **V1321 EDWORD PRO v4.1**
Text language editor or Wordprocessor on the Amiga with over 100 features. By M Reddy

☐ ^ + **V1326 COMMANDS & LIBS**
over 100 commands that lie within a c directory. and over 20 librarys will spice up your disks.

☐ ^ ^ **V1330 (AGA) COLLECTION**
AGA source code, IFF Binary convert, Sprite Converter, ColourConvert, PPShow, Viewtek

☐ ^^ **V1335 LIBS & DATATYPES**
(AGA) 47 Librarys for workbench 3 computers, all are right upto date and just waiting for you.

☐ ^ ^ **V1336 BBC EMULATOR**
Special commands to allow existing files to be transfered from a BBC with DFS by means of a cable. BBCs RS423 port to Amiga RS232

☐ ^ + **V1354 FIVE STAR v1.0**
A powerful prediction tool for LOTTO, POOLS, SWEEP, DIGIT and HORSE (races)

☐ ^ * **V1355 MPMASTERvv2.0**
A useful MIDI program that enables to transmit/receive samples via MIDI between the Amiga and any MIDI device. Easy workbench interface.

☐ ^ + **V1356 NOERRORS v1.3**
Function is to hide physical disk errors from floppy disks and hard disks, so these disks can then be used without showing read/write errors.

☐ ^ + **V1357 CITIZON MANAGER**
Superb prints that, have been tailored to suit the Citizen range of printers

☐ ^ + **V1358 10 OUT OF 10 MATHS**
is a suite of six educational games designed to help children get to grips with 36 specific topics.

☐ ^ + **V1359 EPU v1.4**
Double your hard drive capacity by installing EPU. After installing EPU to any Device (HardDisk, Floppy, Rad etc) every file which will be written to the device will be compressed and when any compressed file is read it will be autmaticaly decompresed.

☐ ^ * **V1360 WB 2.0 TUTORIAL**
If you are new to the Amiga - WELCOME! There is alot more options open to you than just playing games. Breaks down the makings of Workbench & make them more understandable to the user.

☐ ^ ^ **V1361 (AGA) 16-COL ICONS**
These icons were beautifully drawn by Roger McVey, and I must add that the originals are the best icons I have seen on any system.

☐ ^ + **V1362 CHECKER TOOLBOX**
Incredible Amiga diagnosis program. Runs self test on all chips, all the ports and even the disk drive! All your hardware is tested and displayed in graphical information. Every Amiga owner should have a copy! Find out what is wrong with your Amiga before going to the repairers to get it fixed. It may save you a bob or two!

☐ ^ * **V1363 AD&D ASSISTANT**
play-time dungeon master's assistant and CHARGEN.GUIDE v1.0

☐ ^ + **V1367 CHEQUE-MATE! v1.0**
Will help you control your personal finances. Enter details about cheques, salary, direct debits

☐ ^ ^ **V1369 ENCRYP ALGORITHM**
The Rivest-Shamir-Adleman encryption algorithm is one of several recently developed techniques for encryption which put immensely secure encryption within reach of the home computer user. Non-AGA V1368

☐ ^ ^ **V1371 (AGA) ASI FIX DISK II**
utilities to reclaim lost hard drives, files and check-sum errors, software like AGAFixes, ForceVGA, KillVGA, RunLame, RunPAL v1.1, ScreenModeChanger and Shutup

☐ ^ + **V1384 HOW TO CODE IN C**
Covers Debugging, Intution & Grafik, Kodbibliotek, Tips, Tricks, AmopaAsm FranC, DosIntuition, Workbench-start, DMake, GadToolsBox + Power Source. (2)

☐ ^ + **V1393 STEREOSCOPIC v2.4**
is a simple package that allows you to create 3D Stereograms. Use any background.

☐ ^ + **V1394 CD-READER v1.1**
is based around the parnet networking system and uses the standard parnet cable if you do not have we can send you one for £9.99.

☐ ^ + **V1400 3D STEROGRAM**
3d Picture Show. All images are 3d stereograms.

☐ ^ ^ **V1401 (AGA) GRAPHICS**
Contains AGA Images, Bottles, HAM8, Face-Paint 256 and Thunderbird HAM8. Attributes, Chrome, Chrome2, Gold, Lipstick, Rubber, Skin and Wood. Iamges, Duet.IFF. Objects, Guitar, Ice Cream, Milkbottle, Mushroom, Television & Thunderbird3. + Wraps.

☐ ^ + **V1404 DMS v2.03**
The Device Masher system will compact a complete disk to a single file on your hard drive. Excellent for backing up software disks.

☐ ^ + **V1405 VIRTUAL UTILS**
Contains five utilities containing everything needed for any Amiga user to make virtual memory from their hard drive. The Amiga is fooled into thinking it has massive amounts of RAM when really it only has a small amount.

☐ ^ + **V1416 EYE OF THE BEHOLDER**
Utilities like end of level saved game file, Special quests explanation, Character Editor, Eye of the Beholder Solution.

☐ ^ + **V1417 BANNER V1.5**
A smart character rendering utility for - surprise - banners. SNOOPY v2.0 Enables you to monitor library function calls of any library you wish.

☐ ^ + **V1418 VIDEO TEST SYSTEM**
is a collection of 20 test patterns (displayable with any IFF animation viewer) that can be used to evaluate monitors, TV sets, VCRs, and other NTSC video equipment.

☐ ^ + **V1420 SIGNITUR CREATOR**
The Deluxe Signiture and Coat of Arms Creator You get a selection of letters for use in your new signiture.

☐ ^ + **V1422 BANK MANAGER**
The trouble with statements is that they only tell you what you have spent after its gone.

☐ ^ + **V1423 TELETEXT V1.2**
This project makes it possible to view Teletext (also know as Teletekst, Videotext, Ceefax, Skytext, Supertext etc.) on your Amiga. It is suitable for any PAL Amiga.

☐ ^ * **V1424 PROGR. DESIGNER**
Was written to make designing Intuition interfaces for your programs easier and quicker.

☐ ^ + **V1425 IMAGINE IMAGES**
All the slides were created by craig collins using imagine in various incarnations. The text slides are 640 x 512 16 colour hires laced and the rest are 352 x 566 ham lores laced. (2)

☐ ^ + **V1428 FOOTBALL LEAGUE**
Select from a list of all the players and then send in your details in to play in a play-by-mail game with other people.

☐ ^ + **V1430 N.D.U.K V37 (4)**
Programming Tools. Portions of the Commodore Native Developer Update Kit that can be licensed for separate distribution. Includes the fd files, libraries, startups, C include files, and tools.

☐ ^ + **V1435 GAME WARPER**
This program is a utility which provides hacks for 10 of the most favourite games and a special facility for entering customised pokes into games. This utility requires an Amiga with a 020 (or better) processor and at least 2Mb of RAM. By D.C.Taylor, 020 version

☐ ^ + **V1436 ABANK V1.0**
It is about to easely manage accounts. This software holds numerous options which are detailed in the documentation (in ASCII format and in AmigaGuide format). It's compatible from 1.2 to 3.0 systems.

☐ ^ + **V1437 FOOTBALL ICONS**
Icons to found on this disk are: All the teams at this years WorldCup Finals plus a whole lost of loosers who didn't make it including Scotland, England, Wales & Northern ireland, Plus the entire Scottish and English Premier Leagues plus top european league sides plus four drawers specifically for Rangers, Manchester Utd, Celtic and Newcastle Utd fans crammed full with icons.

☐ ^ + **V1438 WB 3.0 SCREENS II**
Enhance your workbench disks backgrounds with theses nice full colour pictures. Can be used as backdrops for you workbench.

☐ ^ + **V1439 DOS REFGUIDE V1.0**
The first and only Amiga Dos reference Guide on the Amiga range hits the computer disk.

☐ ^ + **V1440 DATAMASTER**
This database has many good features including a maximum of 99999 records in one database and up to 256 fields in one record. There are extensive searching facilities and printing possibilities. Very good.

☐ ^ + **V1442 ROME [GCSE LEVEL]**
This disk is aimed at those at school or anyone else studing ancient Rome around 300 AD. Lots of information. Good educational tool.

☐ ^ * **V1443 HCE V1.0 (2)**
C Compiler environment for the Amiga. By Detlef Wuerkner modified Compiler and Editor source codes so as to be able to combine the two and make a single program, 'HCE' By Jason Petty.

☐ ^+ **V1445 SPK & SPELL MATHS**
An educational quiz game with speech. SPELLING, Animal Words, Colour Words, Dates and Days, People and Jobs and more. MATHS, Maths Practice, Get other Maths Questions, Set level etc. Ages 4-7.

☐ ^ + **V1446 APLUSPLUS V1.01**
The A++ Library is a library written in C++ that consists of classes assigned to the task of encapsulating the Amiga+ system software. Its aim is to provide a stable and effective method of programming the Amiga. (3)

☐ ^ + **V1462 AMIGA FAX V1.4**
Is a software package that, in combination with a FaxModem, allows you to send and receive facsimile information from your Amiga computer. Received faxes can be viewed, printed, forwarded to other fax machines, and saved as ILBM files which can then be accessed using many standard Amiga programs.

☐ ^ + **V1467 AWARD CONSTRUCT**
A very handy tool for creating your very own awards and certificates. There are many styles, fonts and graphics to choose from.

☐ ^ ^ **V1468 GAMES HD INSTALL**
Provides you with the software needed to install certain games onto your A1200. The games that this disk can install are BodyBlows, Goal, Lemmings 2, Superfrog, and Walker. Could be very usefull.

☐ ^ ^ **V1471 (AGA) GATHERING 1994 GRAPHICS PACK 1-6**
A truely excellent set of AGA pictures. The pictures are displayed in a slideshow and the artwork is exceptionally good. (6)

☐ ^+ **V1479 NEXT GENERATION WB**
Powers up the Workbench photons & readys your system for the Star Trek experiences.

☐ ^* **V1508 PAINT-IT! V2.0**
This is a colouring book for kids, it has loads Icons for you to press and each has it' sown unique sound!!. This is the cut down version, so it only has 5 pictures, the full program has loads for you to colour in!!!!.

☐ ^+ **V1509 PRO-GAMBLE V1.0**
is a horse racing prediction system thats easy to use and accurate in it's predictions.

☐ ^^ **V1512 256 COLOUR ICONS**
This disk is full of lovely colourfull icons for use in WB3 only as they are 256 colour images. Draws, tools & project types.

☐ ^+ **V1513 SCION V3.13**
Aa genealogy application. It provides all you need to build up a computer database of your entire family tree and all the relating details.

☐ ^+ **V1514 ABC PATTERNS**
For those of you who get a little bored with the old plain grey Workbench, here is a disk full of all the WB patterns and screens. Good.

☐ ^+ **V1516 TERM V4.0 (2)**
The latest version of this very well known comms terminal program. Version 4 has even more features and although it is not for beginners it is probably the best available.

☐ ^+ **V1518 APOLLO 11 (2)**
A very informative hypertext book all about the famous Apollo 11 mission which allowed man to set foot on the Moon. Stacks of information interspersed with photos, documents and diagrams. Very good.

☐ ^+ **V1522 VIRTUAL WORLDS**
An adventure creator for which you need no programming knowledge to create worlds. Using an easy to use point and click interface, you can design an entire adventure without having to type in a single line of code.

☐ ^+ **V1523 RELOKICK V1.41**
Howdi doodlely doooo Amiga freaks! It's ANOTHER(!) version of ReloKick.

☐ ^^ **V1532 RAYTRACED ALIENS**
HAM of a Profiles of the Alien.

☐ ^^ **V1534 ICONIAN V1.97**
An icon editor with all the functions of IconEdit under OS3.0, plus more. Features: Support for sizable windows and custom fonts

☐ ^^ **V1535 (AGA) JPEGAGA**
Highest quality JPEG viewer (if a map-file for that picture is available) uses the HAM8-mode

☐ ^* **V1537 MAGICCX V1.0**
Tthe definite commodity/system enhancer for any Amiga running OS 2.x or better.

☐ ^* **V1538 MASS ICON ALTER**
allows manipulation of many icons all at once.

☐ ^* **V1540 TIMEGUARDIAN**
is a program package with which you can easily start events, that have to be done at certain times or dates on your computer.

☐ ^* **V1541 VMEM V & VMM**
VMEM v1.0 Release 1 VIRTUAL MEMORY SYSTEM for ALL Amigas with WB2 or above. VMM v2.0 is a virtual memory manager for any Amiga with a 68030 or 68040 processor. Up to 128 MB of virtual memory

☐ ^^ **V1542 (AGA) SIRD. STEREOGRAM GENR V3.8**
The dots (which seem random) are calculated in such a way that if you focus behind the picture (monitor, etc), you will see a 3D pic with a real feeling of depth.

☐ ^+ **V1544 MANAGECDPICS**
Ccataloger that allows you to create picture-databases and easily view the pictures.

☐ ^+ **V1546 MN3A v1.2**
An antenna design program used to calculate currents, impedance, and fields of wire antennas. The wires may contain lumped-constant loads.

☐ ^* **V1548 PRO-WIZARD V2.0**
is a multi-converter for Amiga music files packed with tools like NoisePacker, ProPacker, etc It converts all these weird formats in the standard Protracker format!

☐ ^^ **V1552 M.U.I v2.2**
MAGIC USER INTERFACE is an object oriented system to create and maintain graphical user interfaces.

☐ ^^ **V1554 I.B.M (2)**
THE IMAGINE BUDDY SYSTEM is an excellent new addod for Imagine 2.0

☐ ^+ **V1556 IMAGE STUDIO v1.1**
Has been written for the casual graphics user who wishes to convert or manipulate various graphic formats on almost all amiga machines.

GAME DISKS

☐ ^ + **1060 STAR TREK: TNG**
This is a stratergy based Star Trek in which you control the Enterprice

☐ ^ + **1081 ULT STAR TREK**
This is probley the most famious of the games here with great graphics and sound.

☐ ! - **1073 TETRIS ORIGINAL**
This is the closest game to the original tetris

☐ ^ ^ **3040 TETRIS (AGA)**
If you like tetris, you need this disk.

☐ ^ + **3075 18 HOLE GOLF**
Fully selectable speed and power functions com-bined with surperb graphics and sound. (2)

☐ ^ * **3287 ROAD TO HELL [2Mb]**
Is an over-head view driving game like HotRod. Theres a helping extra which can be bought from the shop like types, Engines, Rockets etc

☐ ^ + **3310 STARBASE 13**
Is a graphical adv simular in style to monkey island & Operation Stealth. A brilliant game (2)

☐ ^ + **3370 DIGITIAL TETRIS**
Is a 1 or two player Tetris game with neat graphics

☐ ^ ^ **3436 MOTOROLA INVAIDA**
Its just another excellent AGA very large graphics space invaider type game. (2)

☐ ^ ^ **3454 (AGA) KLODIKE**
Fancy a game of Klodike with AGA graphics. (3)

☐ ^ * **3619 GNU CHESS 4.0**
It contains a nice graphical user interface (menus, use mouse to move pieces ect.) The advantages of this program over that others are GNU Chess is a much stronger chess playing program.

☐ ^ + **3766 SMASHING TETRIS**
Another tetris variant game with excellent colourly exiciting graphics.

☐ ^ + **3803 A DAY AT THE RACES**
In which you can run a horse racing stable with a selection of options. Run a stable of horses.

☐ ^ ^ **3804 (AGA) MEGABALL**
the best Amiga bat & bat game ever. New Bats, bricks, sounds extra levels.

☐ ^ + **3814 HIGH OCTANE!**
Stunner of a game in the vain of HotRod! You get an overhead view of the race course.

☐ ^ ^ **3819 (AGA) TO THE DEATH**
Just has to be purchased because its brilliant. The Best Karate type game around. Select various characters and special moves.

☐ ^ + **3820 DOG FIGHT**
BiPlane but with better graphics, sounds, extra long screen sizes, split screen play.

☐ ^ + **3829 TANK COMBAT**
The excellent VCS game called Combat, only tart-ed up a bit and with different gameplay variations.

☐ ^ ^ **3839 GEORGE GALAXO**
AGA platform. You control a beach bum with a machine gun and must fend off all kinds of enemies

☐ ^ + **3841 KRILLIAN INCIDENT**
Take control of a federation starship & travel the known galaxies defending outposts from certain factions of the race called the Krill. similar to games such as Elite and Epic.

☐ ^ + **3844 MOOSE DRIVE**
Driving simulator that is shown isometrically on the screen. cars are all three dimensional. Good game in which you not only race against the ever improving computer cars but also customise your car with new parts.

☐ ^ + **3846 TANX 'N' STUFF**
The screen is divided into four and then each player drives his or her tank around the countryside in search for the other three tanks which must be destroyed.

☐ ^ + **3853 TROOPER**
Shoot 'em up in which you must fend off an infinite supply of enemy attack craft which, if allowed close enough, will open fire on you. Good graphics.

☐ ^ ^ **3864 (AGA) MISSILES**
You must defend your city of Xenon in this futuristic nuclear war game. First purchase all the weapons and defences that you need, then you have to shoot down the waves of enemy missiles which come in all shapes and sizes. Superb graphics & sound. (2)

☐ ^ ^ **3885 IMPERATOR**
A strategy game for one player in which you must conquer the world. Contend with barbarians, plagues, rival empires and your own commanders.

☐ ^ + **3897 TASKFORCE**
[illegible]

☐ ^ + **3904 SOLAR LORDS**
An excellent wargaming game with loads of features like, personal rating, income pertam, credits, military power, luck rating, strategic power, science rating.

☐ ^ + **3909 TOOLBOX**
In this game you must move a teddy bear around his toybox in order to destroy all the bad toys by pushing toy blocks into them.

☐ ^ ^ **3914 (AGA) BEETLE**
Platform puzzler in which you must manoeuvre the beetle around various levels collecting all kings of fruits and other power ups.

☐ ^ + **3915 STEEL DEVILS (K)**
This game is played with a minimum of two players. The idea of the game is to destroy your opponents within the realms of various different levels. Different weapons can be collected as well as other power ups.

☐ ^ + **3918 STEWARDS ENQUIRY**
Ever played one of those horse racing games on an old 8 bit machine. Well this is just like those. Up to eight players can bet their money on horses which race before your very eyes.

☐ ^ + **3919 MINESWEEPER**
A classic puzzle game often found on Windows. You must uncover squares without hitting mines and try to work out the where abouts of the mines and marking them.

☐ ^ + **3920 TIMELESS EMPIRE**
A text adventure in which you can vertually decide the result yourself.

☐ ^ + **3936 DEEPSPACE V1.6**
Is an ansi/ascii text space role playing game. Includes mega enhancements from our original Aminet release and a few bug fixes. CYCLES!! This Light Cycles game allows you to design the courses in any paint package.

☐ ^ + **3938 GLADIATOR V1.0**
Wargame that runs in WB window. Strategy game, You control 1 or more characters (which can be magic users or fighters) and the computer controls an opposing team.

☐ ^ + **3939 IMPERIAL V2.65**
Oriental game in which you have to remove tiles from a layout (like Shanghai). Every game has a solution and there's a layout editor.

☐ ^ * **3940 DUALMAZE V1.3**
Solve two mazes at the same time! Single player game using the dual playfield feature of the Amiga to provide a unique challenge. Scrolling graphics, music, and new mazes each time you play!.

☐ ^ ^ **3942 PLANET FALL AGA**
Great (and hard) Lunar Lander game. 2 levels of a great lunar lander type game, with nice sound and fun action.

☐ ^ + **3944 MOONROCKS**
Recent news reports indicate a famous dead rock star has been sighted on the moon. Your mission, if you choose to accept it, is to find the rock star and land near him.

☐ ^ * **3945 SPHERES OF INFLUENCE**
Is a strategy game of galactic colonization (for one to eight players one of which must be human.) Hard drive installable. 1 Mb of CHIP

☐ ^+ **3946 MIND GAMES 4**
Jim's Video Poker v1.0, Lazymines v1.0, Mastermind v1.6, MineSweeper, Montana v1.2, NineMen v1.6, SCS v1.0, Washer, Ying&Yang.

☐ ^ + **3947 FOOTBALL MANAGER**
This is probably the best Football Manager game currently on the market. By Datasoft

☐ ^ + **3948 SENSITIVE**
Your stack on a board simular to a chess board but with squares missing. You have to Move around the board after passing over a square it will dissapear!. You have to end on the end square to complete the level.

☐ ^ + **3949 INDUSTRIAL ESPIONAGE**
Is a game for 1 - 4 players who each take on the role of a spy attempting to steal secrets from a company. Along the way you must search rooms, plant bombs, shoot guards/other spies and access computer terminals in order to complete your mission.

☐ ^ + **3950 SPLOGGY**
An excellent platform game in the style of Super Mario World. Totally Brilliant recommened for all its nice colourful graphics and playability puts this game at the very top end of the public domain and shareware market.

☐ ^+ **3952 (AGA) KLONDIKE EXTRA CARDS 3-7 (5)**
Contain Extra card sets for use with Klondike.

☐ ^^ **3958 (AGA) TETRIS DUEL**
This tetris clone is for those of you with AGA machines only. The graphics are very good and so is the gameplay. There are a few extra features such as bombs and other things that drop down instead of the normal blocks.

☐ ^^ **3959 (AGA) KNOTTY**
This AGA game involves the simple rearranging of a picture that has been divided up into thirty six sections. The graphics are very good and the game is quite tricky.

☐ ^ + **3964 SUPERLEAGUE 3**
This is a utility for compiling and storing football results. It allows you to build up a league and or cup database easily and then allows easy access to all the information.

☐ ^ ^ **3968 ERIC SCHWARTZ MORPHY THE MAGIC MAN AGA**
This AGA version has even better graphics but needs twice the memory. (4Mb)

☐ ^ + **3969 OVERLANDER**
Moonbuggy. You take control of a moonbuggy and must navigate the planets surface whilst shooting both ground and air targets.

☐ ^ ^ **3971 (AGA) BACMAN**
This game is an AGA pacman clone which uses the full 2 meg of your machine. Not very exiting, quite good graphics.

☐ ^ ^ **3972 ZOMBIE APOCALYPSE 2**
This is the sequal and it is better. With improved graphics and sound effects this game is even more gorey than it's origanal. The gameplay is operation wolf style and is full of blood.

☐ ^ + **3973 KNIGHTS**
A very good new adventure type arcade game for two players. You are each a knight who is patrolling the dungeons. There are many items to collect and if you see each other you can have a fight. Excellent graphics and gameplay.

☐ ^+ **3974 BUCK TOOTH BOB'S JUNGLE ADVENTURE**
This is a quite amusing platform shoot 'em up. The idea is to blow as many birds and other jungle animals apart as possible with Bob's trusty double barralled shot gun!

☐ ^ + **3975 AUTOMOBILES**
A cute little racing game which is a bit like skidmarks but on a very small scale. The game can be played with upto three players at once. Good graphics and loads of options like new tracks and different control methods. Great.

☐ ^ + **3976 PEEBEE**
A very cutey little shoot 'em up in which you are a bee. The game scrolls up screen through garden like levels in which you can shoot just about anything. Good graphics.

☐ ^ + **3977 Q-BIC**
This is a very good clone of the game QBert. You need to colour all the squares of a pyramid in this puzzle game.

☐ ^ + **3978 SPACE TAXI**
You must thrust your space taxi through space collecting passengers from various platforms and then dropping them off again at other platforms. The catch is that you have to control your undercarriage. Very addictive.

☐ ^+ **4000 TRICK OR TREAT**
A game that is played by two only. The game play is rather like Doom on the PC but the idea is to knock on doors where you will get a trick or treat. The treat will help you to seek and destroy the other player.

☐ ^+ **4006 SCHNEBITZ**
This is a cartoon style puzzle game in which you must guide Schnebitz through each puzzle by moving certain coloured blocks into their correct positions.

☐ ^+ **4007 STARWOIDS (2)**
This is a very well presented arcade game. The game is meant to be like StarWars. There are lots of well drawn logos, menus and even a short intro which give this game a professional feel. The actual gameplay itself is not quite as exiting but still very addictive. You have to thrust around in your X-Wing collecting troops on the ground.

☐ ^^ **4010 (AGA) KLONDIKE CARDS 08 [STAR TREK]**
A set of Star Trek playing cards for Klondike (or Klondike 2). Good.

☐ ^+ **4016 DUAL-4-MAT 03 (3)**
A large magazine with articles covering almost very imaginable subject (especially if it has anything to do with the Amiga demo scene).

☐ ^+ **4056 ARCHY'S MINIDASH**
This is old C-64 style Boulderdash clone, AdvancedMiniDash, and here is many new great features, like bombs, magic walls, arrows, etc. full editor, what allows to use all features.

☐ ^+ **4066 THE DUNGEONS OF MORIA v1.2.0**
is a single player dungeon simulation. choose from a number of races and classes when creating a character, then 'run' that character over a period of days, weeks, even months, attempting to win the game by defeating the Balrog which lurks in the deeper levels.

☐ ^+ **4067 DYNAMITEWAR V2.0**
A tiny game for 2-5 players who fight against each other. It is similar to the commercial Dynablaster or Bomberman, except a 1-player mode is not available. On the other hand, there are a great number of extras. To win the game, one player has to disintegrate all other players by exploding bombs. Author Andre Wiethoff

☐ ^+ **4068 ICE PRINCESS V1.4**
Role-Playing Game which is a Demo version of an interactive novel. You are an 18 year old orphan who meets the love of his life on Christmas Eve. A fairy-tale story for both young and grown-up children.

☐ ^+ **4070 ROACHFARM V1.0**
Congratulations on your new job as head shipping clerk in the roach division at Insect Fun Inc. Your job is to fill test tubes with live roaches in preparation for shipping so that eager Roach Farm customers may stock their farms with livestock.. Author Lucas Swinefood.

☐ ^+ **4071 CITADEL SPACE EMPIRE**
In Space Empire, you compete with up to 25 other players attempting to control the universe and become the glorious Space Lord. The route is difficult and there are many enemies along the way. an economic and strategy game

☐ ^+ **4072 3D DUNGEON TEXT**
(V5.0) This demo enables you to walk through a 3D dungeon. All walls are realtime texturemapped and shaded. The ECS version uses 64 colors. The AGA version uses 256 colors. Author John Hendrikx.

☐ ^ + **AS159 DRIVING MANIACS**
Best racing game ever seen on PD with solid 3d graphics including Scenery, Track and car details

☐ ^+ **4076 ANTWARS V1.9**
Puts you in the shoes of an ANT who must try and destroy the anemys ant nest, Tactical.

☐ ^+ **4084 ULT.FRUIT MACHINE**
Although the graphics are simple the gameplay is highly addictive and realitic. Good Game.

☐ ^+ **4085 DEPTH CHARGE**
is based on an old arcade game in which you control an subarine destroyer. Destroy subs.

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PROGRAB 24RT

24-bit video grabbing has never been so cheap. For £130 you get a 24-bit digitiser that's compatible with AGA and non AGA machines with at least 1.5 Mbs RAM, from Workbench 2 upwards, and 5 pence change. Cheap and nasty? Not a bit of it.

LOW END TO HIGH END

The results you get from Pro Grab depend on the type of Amiga you're using. If you want grabs that look just like the source image, then you'll need an Amiga with plenty of RAM and AGA graphics, or even better, a 24-bit graphics board. These two pictures were taken from the same source grab. The one on the right was rendered on a 1.5 Mb A500 Plus – 32 colours in low resolution. The one on the right was rendered in HAM-8 Super hi-res interlace on an expanded A1200, and looks very close to the original.

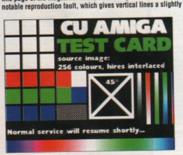
THE HARDWARE

Pro Grab 24 is a hardware and software combination. The hardware is contained in a small, sturdy, Amiga-coloured plastic box. This connects to the parallel port with a very generous length of cable, so you don't need to have your video source and Amiga squeezed up together on the desktop.

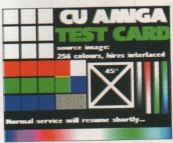
A PCMCIA interface is also planned for the near future, which should give higher grabbing rates. Video input comes via the composite video phono socket. An external power supply is included. The only other features are the red power LED, and the green LED that indicates the presence of an incoming video signal.

TESTCARDS

To test Pro Grab's fidelity, we set up a test card on one A1200, and grabbed it via the composite output with another A1200. The first image is the original testcard image, which has been loaded directly into the DTP program used to create this page of the magazine. The second image is the test card as digitised by Pro Grab. This highlights Pro Grab's only notable reproduction fault, which gives vertical lines a slightly staggered edge.


CU AMIGA
TEST CARD
source image:
256 colours, hires interlaced
45°
Normal service will resume shortly...

The original.


CU AMIGA
TEST CARD
source image:
256 colours, hires interlaced
45°
Normal service will resume shortly...

The same image captured with Pro Grab 24RT.

The Apollo IX Moon Landing team, grabbed just before they set off on the mission, and rendered in low resolution with 32 colours for that extra grainy effect.

The rain forecast

Once you've grabbed your image, you can load it into any art package for manipulation. The only limit now is your imagination.

THE SOFTWARE

Pro Grab's software interface is nice and easy to use. It looks like a *Scala* presentation, with big buttons and a bold, clear typeface. Menus are kept to a minimum. As far as the user is concerned, the process of grabbing an image is quite simple. A small window is used to monitor your video input, while you hold down the left mouse button. Release the button, and the current frame is stored in the Pro Grab hardware. The next step is to load the image from the grabber into the Amiga, through the parallel cable connection. All grabs are loaded into the Amiga as 24-bit images, whatever machine you're working on. Once you have the 24-bit data in the computer, you can render it in your chosen resolution and colour range, which can be anything up to super hi-res interlace in HAM 8 on AGA machines. Rendering takes only a few seconds on an A1200 with Fast RAM, but can take up to 4 or 5 minutes on an A500 Plus.

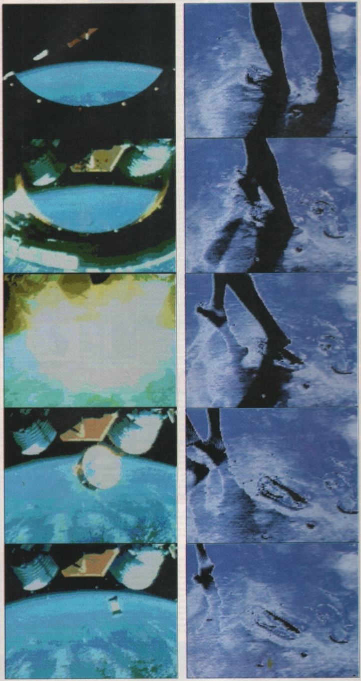
You can then save out the rendered image, or the complete 24-bit data, for rendering in other applications, graphics boards or even other computer systems. These can be saved as IFFs, JPEGs, Clipboards or Pro Grab's own raw 24-bit format FG24. The rendering section includes 19 image processing filters including sharpen, blur, woodcut and bas-relief. Most will be of use at some time or another, but none are particularly revolutionary. Brightness, colour and contrast controls are available from a panel of sliders. These affect the rendering of the 24-bit data, rather than the sensitivity of the grabber.

ANIMATION

It's possible to capture animated sequences from a video source with Pro Grab, but frame rates are severely limited. For example, the best we got out of our A4000/040 was about three frames per second. When used on an A500 Plus, performance drops to one frame every two seconds. Depending on the speed of your Amiga, and the amount of available RAM, you may be able to record animations in full screen high resolution HAMM, or you could be limited to a smaller letterbox-shaped grey scale display. With slower Amigas, when grabbing

ANIMATION EXAMPLES

Here are two example animations. The frames from the first animation were rendered as low resolution full screen 32 colour images. The second animation was a half-screen grey scale sequence. This was loaded into *DPaint*, from where it was stretched to full screen height, and given a more colourful palette.



from a video tape, better results are often possible by taking single frame grabs, advancing the tape a little each time. You can specify a delay between each frame grab, which could be useful for time-lapse photography. Animations are saved out in ANIM 5 format, with different palette for each frame

PICTURE QUALITY

The main limitation here is not so much the Pro Grab hardware, as the quality of the composite video signal. Composite video is sufficient for recording home videos, but it's not ideal. With an RGB video signal, the red, green and blue components of the picture are all sent as separate waves. Composite video mixes everything into one at the source, so by the time the signal gets to its destination (the grabber in this case), it tends to be a little muddled. SVHS is somewhere between the these two systems, sending separate chrominance and luminance signals.

The advantage of grabbing from a composite signal, is that the system can digitise a whole frame in one go. RGB realtime grabbers actually take three successive frames (red from one, green from the next, and blue from the final frame), and combine them to get their image. With a good video source, you can get some pretty impressive results from Pro Grab. The only quibble on this score concerns the horizontal scan lines of the grabs, which are often very slightly out of sync. This can make vertical lines look a little jagged – not so noticeable in higher resolutions, but this can be quite prominent in low-res pictures. HAM fringing has a habit of exaggerating this. Other than that, the results are very satisfying, especially considering the low price.

CONCLUSION

This is an ideal entry-level video digitiser. If you need broadcast quality grabbing, you'll need to go for something a bit posher, but for just about any other application, Pro Grab is very hard to beat. For the money, nothing can touch it.

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The well designed software keeps things nice and simple.

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Not bad at all. Cheap without too much of the nasty.

EFFECTIVENESS ♦♦♦♦♦♦♦♦♦♦78%

The end results are definitely not the best of an Amiga digitiser, but are sufficient for many uses.

FLEXIBILITY ♦♦♦♦♦♦♦♦♦♦80%

Very memory hungry on lower-end machines, but has enough options to be useful on anything from an A500 Plus upwards.

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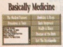
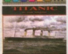


CLE41 BASICALLY MEDICINE A title written by members of the St John's Ambulance brigade, this is a superb title covering Diseases,treatment, Medicine & Drugs, Health & Illness, Basic equipment needed & the medical pioneers who helped create modern Medicine! A really useful title.
Comes on two disks £4.95. +

CLE051 PAINT PASTE & DRAW
This is a stunning drawing/colouring book, containing lots of background pictures, brushes to paste on, plus editor to design your own , you can even add your own artwork to the picture. A superbly presented program, this one is a must for young children!
1 disk £3.95.+



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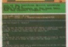
CLU03 TYPING TUTOR A program here now for all you budding office clerks, learning to type can be a real pain, lessons cost a fortune, but not when you have an amiga ! This program will take you step by step through a full typing course, showing where to place your fingers and lots more. Before long you'll be able to type as fast as I can ! Price £3.95 +



CLU032 POWERTEXT 2 This is a superb & powerful wordprocessing program, featuring embedded commands, automatic saving, Mail merging, built in spelling checker, user definable function keys, wordwrapping & much much more! You will probably never need any more than this !
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CLG40 TRAX Now this is a very good fruit machine simulator. However this one is slightly different! The plot is not to go for the money but to complete the TRAX feature. The money you win just gives you more goes to complete the task! A very addictive version of a classic game!
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CLU15 EPOCH VI	1 disk 3.95+
CLU17 LC10 FONTS	1 disk 3.95.+
CLU18 LC200 FONTS	1 disk 3.95. +
CLU19 LC24 FONTS	1 disk 3.95 +
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CLU21 INVOICE MASTER	1 disk 3.95. +
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CLU30 DRAW SELECTOR V2	1 disk 3.9
CLU31 FLOWCHARTER	1 disk 3.9
CLU33 AM TUITION	1disk 3.95
CLU34 IMAGE DOCTOR V1	1 disk 3.9
CLU35 CRITERION	1 disk3.95
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CLU37 FIND IT	1 disk 3.9
CLU38 SMALL ACC MANAGER	1 disk 3.9
CLU39 HARD DRIVE MENU 2	1 disk 3.9
CLU40 ARCO	1 disk 3.95+
CLU41 REFLECTIONS	2 disks 4.95+

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CLG05 TRUCKIN ON	2 disks 4.
CLG08 DRAGON TILES	1 disk 3.9
CLG12 BULLDOZER BOB	1 disk 3.9
CLG13 PARADOX	1 disk 3.9
CLG15 SPLODGE THE ESCAPE	1 disk 3.9
CLG16 CRYSTAL MAZE	1 disk 3.9
CLG17 IMBRIUM	1 disk 3.9
CLG20 JUNGLE BUNGLE	1 disk 3.9
CLG21 FLOWER POWER	1 disk 3.9
CLG25 WHITE RABBITS	1 disk 3.9
CLG26 MONSTER ISLAND	1 disk 3.9
CLG35 OG	1 disk 3.9
CLG45 KNIGHT FIGHT 2	2 disks 4.9
CLG46 ARCHIPELAGOS	1 disk 3.9
CLG47 KIDS FUN PACK	1 disk 3.9
CLG48 THE LOST PRINCE	2 disks 4.9
CLG49 SPACE POWER	1 disk 3.95
CLG50 HAIRPIN 2	1 disk 3.95
CLG51 TEN PIN BOWLING	1 disk 3.9
CLG52 ADVENTURE CREATOR	1 disk 3.9
CLG53 WALL STREET	2 disks 4.9
CLG54 NATIONAL HUNT	1 disk 3.9
CLG55 CRYSTAL QUEST	1 disk 3.9
CLG56 SENTINAL	1 disk 3.9
CLG57 DREAMSTREAM	1 disk 3.9
CLG58 GIGERPHOBIA	1 disk 3.95
CLG59FOOTBALLCLUBMANAGER	1 disk

COMPTECH PRO COMMERCIAL CLI

This is a brand new range of clipart designrd exclusivly fo
These images are of very high quality and detail and are
3.50 per disk! All images are in IFFormat & may be impo
most packages! ok 500,600 + 1200. PC versions availa

CT001 TRIASSIC DINOSAURS CLIPART	only
CT002 JURASSIC DINOSAURS CLIPART 1	only
CT003 JURASSIC DINOSAURS CLIPART 2	only
CT004 CRETACEOUS DINOSAURS CLIPART 1	only
CT005 CRETACEOUS DINOSAURS CLIPART 2	only
CT006 DRAGONS 1 mythical Dragons!	only
CT007 DRAGONS 2 More super dragons!	only
CT008 DRAGONS 3 Some more super Dragons	only
CT009 DRAGONS 4 And yet more dragons!	only

NEW TITLES!!!

PG372 KNIGHTS Wander deep in the medievil dungeons
PG373 SCOTTISH FOOTBALL MANAGER Good! +Y
PG374 AUTOMOBILES Overhead view car game +Y
PG375 BUCKTOOTH BOB This is a crazy platform game
PG376 THE SWORD OF YIGG adventure game! +Y
PG377 OVERLANDER Nice shoot up game! +Y
PG378 FIGHTER DUEL PRO 2 Flight sim 2mg Y
PG379/80 GEORGE GLAXO Good platform game (2) +
PB052 ASI OFFICE HELPER Show STD,Home budget,
PB053 ASI OFFICE HELPER II Phonedir,Quickfile, loan
PM244/5 METALLICA RIDE THE LIGHTNING Octamed
PM246 MATRIX CHILLOUT EP 4 housey type songs,
PM247 MATRIX KAOS EP 4 breakbeat style songs!+Y
PM248/9 ROCKILY Some nice music! (2) +Y
PM250 MOVE ON Huge Octamed module needs 1mg ch
PU536 MAGIC WORKBENCH EXTRAS more super icons
PU537 FLICK 1.2 Play PC FLI animations on the Amiga! Y
PU538 WB3 LIBRARIES & DATATYPES Useful disk! Y
PU539 VIC 20 EMULATOR For nostalgia fans only! +Y
PU540 AMIGA E GUIDE Useful to programmers. +Y
PU541 ASI MULTIVISION 5 Fast jpeg,PPshow 4 & more
PU542 ASI MULTIPRINT 3 E print, miser print & more +Y
PU543 ASI MULTIPRINT 4 Epoch master,print manager
PU544 AREXX USERS REFERENCE MANUAL useful
PD259/60 QED 2 By Talent New AGA,great effects(2)12
PD261 ETERNITY A nice AGA intro 1200 only.
PD262/3 SMALL IS BEAUTIFUL collection of intros!(2)12
PS172 MECHANIX SLIDE AGA 8 superb Jpeg pics 120
PS173/5 AWSOME JPEGS 8-10 Stunning (3) 1200 only
PT113 SPEECH & INSTRUMENTS 75 samples on this
PT114 VARIOUS SPEECH 27 different samples! +Y
PT115 RADIO JINGLES 14 great jingles! +Y
PT116 SONG SPEECH SAMPLES 1 lots of samples!+Y
PT117 SONG SPEECH SAMPLES 2 And more samples
PT118 BEAT LOOPS Some interesting loops! +Y
PT119 INSTRUMENT SAMPLES Lots of varied samples
PT120 INSTRUMENT SAMPLES Lots more samples! +Y
PT121 AC/DC & DEEP PURPLE MODS 2 huge rock mo
PT122 SOUNDMACHINE Play & convert WAV & VOC t
PT123 MIDI PACKET MASTER Super midi software! +Y
PT124 AUDIOMAGIC 7 Quadracomp 2.3, Multripper et
PT125 AUDIOMAGIC 8 FM Synth 3.2,Delux music playe
PT126 AUDIOMAGIC 9 Prowizard v2, Mastermidi etc+Y
PT127 AUDIOMAGIC 10 Sampex 1.2,Sound effect etc+Y
PT128 SONIC DRUM KIT Good little drum machine! +Y

AMIGA CD ROM COMPACT DISCS!

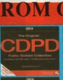
CDPD 1 Fred Fish disks 1-660, hundreds of music modules & players with which to play them, & much much more! £19.95 plus 50p p&p.
PS Only a few left!
CDPD 2 This CD contains Fred Fishdisks 661-760, Scope library from 1-220 & more! £19.95 plus 50p p&p
CDPD 3 This CD contains Fred Fish 761-890, classical literature etc £19.95 plus 50p p&p

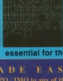
DEMO COLLECTION Over 600 megabytes of software inc demos in an archived format, lots of iff samples for youur music utilities, lots of runnable PD games, iff clipart, fonts, animations , 1000 modules to play on your music tracker, commercial demoes of games & utilities & much much more! £19.95 plus 50p p&p.

DEMO COLLECTION II Over 100 ready to run PD games either from CDTV or CD32 lots of ready to run animations, loads of music modules & music samples, Jpeg pictures, HAM8, 256 colour & HAM slideshows ,loads of Amiga demos & a whole lot more! £19.95 plus 50p p&p.

THE EUROSCENE CD Too new to review fully, but is packed with latest demos & other software from Europe & elsewhere. There are 600mb of Amiga demos & music on this disk. See the best talent on hundreds of European demos drawn directly from the FUNET internet archive.Many party winners & some never seen before! All are archived and designed for BBS, Amiga CD ROM (including A570) and Unix!
A bargain at only £14.99 plus 50p p&p..

THE VIDEO CREATOR
Exellent new CD from Almathera, this one enables you to use images, animations and special effects & time them with your music CDs.
It is also the first product to utilise the FMV cartridge for the CD32 so you can superimpose images over your existing video CDs!
Complete with hundreds of images, pro effects & colour cycling changes, & random generated video effects! Super value only £34.95 plus 50p p&p





WEIRD SCIENCE MULTIMEDIA TOOLKIT CD ROM!
This is a superb CD Rom, filled to the brim with over 10,000 files,500 24bit jpeg images & 500 Ham8 & Ham interlace versions,Hundreds of megabytes of clipart, (iff black & white,colour and scaleable), hundreds of iff fonts, Compugraphic fonts & coloured fonts, icons, music modules, music samples and lots more! Works on CDTV, CD32, Amiga CD Rom & is also PC compatible on a suitable PC CD Rom only £19.95

NEW WEIRD SCIENCE NETWORK CD ROM!
Superb networking CD to enable file transfer & other functions. The CD32/CDTV is prevented from rebooting on removal of this CD thereby enabling access to any CD.It contains Parnet,Sernet,Nconm ,Term ,Fred Fish 800-975,Tbag 1-74,Photo CD software ,the latest Amos disks (over 120),500 256 colour images, image converters & much more! Works with joypad & has 16 colour WB on WB 2 & 3 systems! With this CD you can access all the others on this page. Only £14.99 + 50p p&p.

NEW CD ROMS IN STOCK NOW!!

THE OFFICIAL AMOS CD
Crammed with over 33.000 files, contains all the Official Amos library ,over 1600 amos source codes, sprite banks, Ctext banks, 800 samples,music & much much more! Over 600 disks worth of software only £19.99! & 50p p&p
AMINET 3 1.1 gigabytes of software in over 3300 archives! Applications, games,business, network utilities & much more, most in lha format! An ESSENTIAL purchase! only £19.95
CDPD 4 Latest,contains Fish 890-1000,Gnu compiler,imagine objects, loads of fonts & much more! only £19.95
SOUNDS TERRIFIC An awesome CD for the musician & Music enthusiast, this is a double CD containing thousands of IFF samples,music modules,loads of Sonix scores,midifiles,lots of music programs such as Soundtrackers,sample editors, midi programs & a whole lot more, also features hundreds of PC Wav. & Voc. samples & a conversion program to convert them to IFF! Yes 1.2 Gigabytes of music software! only £19.95
FONTS CD 600 megabytes of Fonts? Contains thousands of Compugraphic fonts ,Adobe type, bitmapped, colour fonts, cut & paste in fact more than you will ever need for Pro page,Pagestream,Wordworth Final Writer Dpaint etc. Best value font CD ever at an amazing £9.99.
CLIPART CD Yes, hundreds of megabytes of clipart for all occasions, thousands of black & white hi-res IFF images of every possible subject, colour clipart, colour brush clipart,Encapsulated postcript clipart & more! Fabulous value only £9.99

NEW ASSASSINS CD

This is the Ultimate games CD to own, well ov ready to run games on Amiga CD32, the only where ALL the games will work and will let you whether you need a mouse or keyboard for game before you run it! Shoot em ups, platform games, puzzles, cards, adventures & much m more,(many games not on the Assassins gam disks) perfect for all the family, makes an idea present, also works on CDTV and Amiga CD As well as all this the famous Assassins game collection disks from 1-200 are DMSed (archi the CD as well! Its worth having a CD32 just all these classics! only £19.99 plus 5

(IMMINENT SEPTEMBER STOCK PLEASE PHONE)

CD32 serial cable with keyboard passthru only 19.99 essential for the Network CD to work with a computer!

ORDERING MADE EASY

BY POST: send your Name, Address & Order details with a Cheque / PO / IMO to any of the companies listed
BY PHONE: Call us with your card number, expiry date and details for a 1st class service. All major cards accepted
PD PRICES: For this summer, disks are only 99p per disk, any quantity (minimum order of 2 disks!)
POST & PACKING: UK - 50p • UK 'Recorded Delivery' £1.25 • Europe +25p per disk • Rest of World +50p per disk
REMEMBER: We stock Fish 1-1000, Tbag 1-74, Amos, Scope, Snag, Amicus, Amigos & lots more superb PD disks!!

PLEASE NOTE:
All disks on the advert should work on the Amiga 1.2/1.3 dos systems unless otherwise stated! All disks with a "+" sign should work on the Amiga 500+ & 600 machines!
However there are so many different setups now in use it is becoming impossible to test for every possible variation, so please use some caution especially with A1500/2000 with various dos systems, CDTV and of course the new Amiga 1 & 4000 systems. Disks marked with a "Y" should be okay on A1200 / 4000 though obviously not yet extensively tested.
Please take care!

ain Distributors

ot the imitators !

The Professional standards for distribution as endorsed by Commodore UK

New Price!

Disks now only

99p

Throughout the Summer!!

CLASSIC CLIPART

k & White) (Okay on A1200 / A4000.)
ipart in this collection is very high quality,
bitmaps, many greater than an Amiga hires screen,
in Dpaint or DTP packages, each disk autoboots
slideshow allowing you to view the entire bitmap
ng the mouse! (Prices per disk!)

WEDDINGS Super wedding clipart, 2 disks!+
HOUSES 2 disks, pictures of mansions etc!+
RELIGIOUS 3 disks full of holy clipart!+
WWII AIRCRAFT World war II planes!+
MEN 2 disks full of men at work!+
WOMEN 2 disks full of women clips!+
KIDS 2 disks containing kids clipart!+
BUSINESS Disk full of office clipart!+
OFFICE Another office type disk!+
STUDENTS Lots of student type pics!+
SALETIME Many useful logos etc!+
XMAS 3 disks of Xmas related pics!+
PUNCH 3 disks of cartoon pics! +
ANIMALS Fantastic quality pictures!+
CATS Only 12 pics but super quality!+
SILHOUETTES 18 super silhouettes!+
SCHOOLS 2 disks of school pictures!+
BABIES Clipart on a baby theme!+
SPORT 2 disks full of sport pictures!+
OLYMPIC Another sport type disk!+
MEDICAL 2 disks full of medical clipart!+
SEALIFE Pictures from the Ocean!+
DECORATIVE MONTHS 1 for every month+
WACKY Funny comic type clipart!+
HOLIDAYS Holiday type pictures!+
BANNERS 2 disks full of banners!+
ART NOUVEAU FLOWERS Floral art!+
BUTTERFLIES Nice pictures!+
FOOD 2 disks on a food/kitchen theme!+
COLOURING BOOK Colour in Dpaint!+
BORDERS 2 disks, must load into DTP!+
MAC CLIP 2 disks high quality macart!+
HORNBACK Nice scenic clipart!+
TEDDY BEARS 2 disks of Teddy bears!+
VANITY FARE 2 disks fashion clipart!+
HALLOWEEN CLIPART Wierd clipart!+
SHOWTIME Dancing, singing etc!+
VEGGIES Vegetarian clipart!+
FLORAL 14 very detailed pictures!+
MYTHS Mythical images + zodiac!+
DOG WOODCUTS Super 300dpi pics!+
CAT WOODCUTS Great wildcat pics!+
AFRICAN WOODCUTS African animals!+
AMERICAN WOODCUTS More animals!+
ARTIC WOODCUTS Northern animals!+
FARM WOODCUTS Farm animals!+
MIXED ANIMAL WOODCUTS Nice pics!+
BIRDS WOODCUTS 18th century bird pics+
MORE ANIMALS More superb pictures!+
ANIMAL LINEART Varied selection of pics
BOTANICAL ART detailed plant pics!+
FAMILY SCENES 2 disks of domestic life!+
GOLF HUMOUR 2 amusing cartoon disks!+
SPACE & TRANSPORT On a space theme!+
SOFTSCENE2 29 rural scenery pictures!+
SPORTS3 More pics on a sports theme!+
NAVY Lots of naval type pictures!+
TRAVEL 2 disks on a travel theme!+
ALPHABET Borders & alphabet clips!+(2)
ACCENTS & FLASHES Burst stars+ more+
FISH Lots of aquatic pictures! +Y
SOFTSCENE 3 More nice scenery pictures! +Y
RESTAURANT 3 disks of Restaurant pictures(3)Y
MORE HOLIDAYS Festive holiday pictures! +Y
ANIM & BIRD 44 nice pictures! +Y
MOSSBURN ANIMALS 32 nice animal pictures! +Y
BURCHFIELD KIDS Some nice kids clipart! +Y
BEAST & MYTH 3 disks of Monsters,demons etc!(3)+Y
TRANSPORT 3 disks of Cars,Airplanes Ships etc!(3)+Y
TRUCKS & TRAINS Full of Wagons trains etc! +Y
ASTROLOGY 2 disks of astrological signs! +Y
AIRCRAFT 3 disks full of aircraft pictures!(3) +Y
BIRDS Songbirds, Birds of Prey & more! +Y
DOGS Disks full of good dog pictures! +Y
HOUSES CASTLES & BUILDINGS Good pics +Y
SPORTS-MAC Lots of good sports pictures! +Y
GARDEN Lots of horticultural pictures.(5) +Y
MILITARY 10 disks of military clipart! (10) +Y
HOFFMAN GRAPHICS Nice pictures! +Y
KIDS ANIMALS DISK Cute cartoony animals! +Y
FARM & HORSES Nice pastoral pictures! +Y
SHIPS Sailing & Steam ships! +Y
ANATOMY 2 disks of huge skulls skeletons etc!+Y
CAMPING On an outdoor theme! +Y
WILDLIFE 3 disks full of wildlife clips(3)+Y
MARINE & NAUTICAL To do with sea life!+Y

AMOS PD

AMOS UPATER LATEST VERSION v1.36 + Y
PIXIE KINGDOM Good exploration game (2) +
SHAPES Excellent kids game !+Y
CASSETTE LABELLER + MIXED SOURCE+Y
WIZARDS DOMAIN graphical adventure+Y
TOTALLY AMOS Good read for programmers!+Y
NOTEBOOK & SHOPPING LIST Easy to use !+ Y
COMPILER 1.36 UPDATE, LATEST compiler !+Y
KARATE WORM II Nice little game! +Y
DRIVER TEST Test speed of your reactions!+Y
SLIDESHOW CONSTRUCTION SET V2! +Y
NODDY,S PLAYTIME Educational demo! +Y
RAMOS PRO For Amos Professional! +Y
TOP OF THE LEAGUE Football manager!+Y
AMOS PRO UPDATER V1.12 Just in!!! +Y
SUPER BATTLE ZONE A good version! +Y
ALPHABET Simple alphabet teacher! +Y
FAMILY HISTORY DATABASEV2.2 Latest! +Y

COLOURED CLIPART

This is a superb collection of coloured clipart, mostly in Ham mode (4096 colours), though some is in 16 colours. Can be loaded into Deluxe Paint 4 or any other package accepting Ham pictures!
(OK on 500, 500+, 600, 1200 & 4000!)

CCL001/10 MAPS, Afganistan-Zambezi, autoboots!(10) + Y
CCL011 REPTILES, good pictures, autoboots! +Y
CCL012/3 ACTORS, famous faces, autoboots! +Y(2)
CCL015/6 AIRCRAFT & CARS assorted, autoboots! +Y
CCL018/26 BIRDS 8 disks, Super, autoboots! +Y
CCL027 CATS, 1-16 Super cat pics,autoboots! +Y
CCL028/35 DOGS, 1-126 Super dog pics,8 disks! +Y
CCL036 EXPLORERS 1-13 famous explorers,autoboots+y
CCL037/40 FISH 1-92 Super pics pictures,(4 disks)+y
CCL041/51 FLOWERS 11 disks of flowers! (11 disks)
CCL052+4 FRUIT 2 disks, Good pics! (2)autoboots! +Y
CCL055 FRONTIER 1-13 Pioneer pictures,autoboots
CCL056/7 HORSES 1-16 Great horse pics,autoboots!(2) +Y
CCL058/61 INSECTS Small creatures!(4 disks) +Y
CCL062/3 INVENTORS 2 disks full (2) +Y
CCL064/71 MAMMALS More animals pictures(8 disks)+Y
CCL072/3 INSTRUMENTS 4-25 Musical (2 disks) +Y
CCL074 MILITARY 7-17,& MUSICIANS 1-4! +Y
CCL075 MUSICIANS 9 -21 Classical! autoboots! +Y
CCL076/7 PREHISTORIC Dinosaurs!(2) autoboots! +Y
CCL078/81 PEOPLE Lots of people! (4 disks)+YY
CCL082/4 PRESIDENTS 1-40 USA presidents,3 disks +Y
CCL085/7 REPTILES 1-19 Good pics (3) autoboots! +Y
CCL088 SHIPS 10-33 Marine vessels! +Y
CCL089 SPORTSMEN. Various sportsmen,autoboots! +Y
CCL091/6 TREES. 6 disks of tree pictures! autoboots! +Y
CCL097/100 VEGETABLES 1-48 goodpics4disks,wb+y

COLOUR BRUSH CLIPART

Saved as brushes so they can be pulled easily into Dpaint!

CB001 Lots of brushes on an art & schoolwork theme. +Y
CB002 Lots of brushes of stores food,garden home & more! +Y
CB003 Lots of brushes on a sporting theme (142 brushes) +Y
CB004 Lots of brushes on a food & confectionary theme! +Y
CB005 Lots of brushes, 155 pics on a financial theme. +Y
CB006 Lots of brushes of cute cartoon caracters! +Y

FONTS (Bitmapped & assignable)

PU048 DYNAMITE FONTS II CutNPaste fontscreens Y
PU049 DYNAMITE FONTS More CutNPaste Fonts Y
PU058 FONTS AND RAM MANAGER BIG video fonts+
PU059 FONTS & SURFACES Backdrops & fonts+ Y
PU169 GELIGNITE FONTS CutNPaste fonts!+
PU175 GELIGNITE FONTS II Excellent IFF fonts+Y
PU176 GELIGNITE FONTS III More of above!!+
PU185/8 COSMOPOLITAN FONTS (4) Packed with fonts+Y
PU201 MALICE FONTS Exellent tiny fonts for Dpaint!+Y
PU226/7 C-EYES FONTS For use in Dpaint, WB, etc.(2)+Y
PU278 GELIGNITE FONTS IV Yes more Iff fonts!
PU331/43 COLOUR FONTS(ASSIGNABLE)Dpaint etc(13) +Y
PU356 FONTFARM Contains 55 large & Small fonts! +Y
PU390 FONT FARM 2 Lots more good fonts! +Y
PU391 FONT FARM 3 Another disk crammed with fonts+Y
PU451/2 HARLEQUIN FONTS Hires fonts & textures!(2)+Y
PU463 BLUE ROSE FONTS 1 Superb cut & paste fonts. +Y
PU464 BLUE ROSE FONTS 2 great cut & paste fonts! +Y
PU465 BLUE ROSE FONTS 3 with a Christmas theme! +Y
PU521/4 BLG FONTS Full of good cut & paste fonts!(4)+Y
PU525/6 CINNAMON FONTS 2 disks full of coloured fonts+Y
PU527/31 FONT FARM 5-8 Loads more good fonts! (5)+Y

PROFESSIONAL FONTS

These fonts are for Professional page & Pagestream use only!
PU231/5 PAGESTREAM FONTS 5 disks full, super fonts!+ (5)Y
PU236/7 SCOPE197/8 Adobe type fonts, 2 disks full! +Y
PU257/61 PAGESTREAM FONTS 2nd set of good fonts.(5)+Y
PU264/8 OUTLINE FONTS For Pro pagev3 or 4(5) ONLY!!+Y
PU319/23 OUTLINE FONTS For Pro page 2.1 or 3!(5)+Y
PU403/7 OUTLINE FONTS For Pro pagev3 or 4 only!(5) +Y
PU408/12 MORE OUTLINE FONTS (As above) (5) +Y
PU413/7 MORE OUTLINE FONTS (AS above) (5) +Y

OCCULT,ASTRONOMY+PREDICTION

PU015 BIORYTHMS, STARCHART 2 Good programs+ Y
PU174 ASTRO 22 professional astrology now V3.5! +Y
PU211 AMIGA PUNT A horse race predicting program!+Y
PU212 PERM CHECK PLUS a pools prediction prog Y
PU213 RACE RATER Another horse racing program!! +Y
PU238 M.O.R.C.V2 rune caster,new 1 disk version!+Y
PU354 ASTRONOMY v2 calculate info on solar system! +Y
PU362 STARVIEW Gives view of star for given time etc!+Y
PU363 FORCASTER Horse racing prediction program! +Y
PU364 COURSE FORM Simple horse racing prediction!+Y
PU375 POOLS TOOLS2 3 pools related programs!+Y
PU377 MING SHU Simple astrological program! +Y
PU454/5 THE HUMAN AURA Interesting book! (2) +Y
PU456 THE MYSTERIES OF RUNES all the signs. +Y
PU473/4 STRANGE Abductions,UFOs corn circles etc (2) +Y
PU482 DIVIDEND WINNER Pools prediction aid ! +Y
PU485 WITCHES COOKBOOK Turn mum into a newt! +Y
PU486 THEORY & PRACTICE OF MAGIC Fun only! +Y
PU487/8 PARANORMAL INVESTIGATIONS Weird! (2) +Y
PU497 RUNEMASTER Become familar with the runes. +Y
PU506 I CHING Learn all about the Oracle! +Y

NEW! UPD GOLD LICENCEWARE! MAD FIGHTER 1200!

Superb new 3 disk fighting game for the 1200 only! This will keep you busy for ages as you try to defeat one opponent after another. Huge sprites and fast gameplay make this an essential 1200 game!

A UPD Licenseware product only 5.99+50p p&p.

SLIDESHOWS

PS120 KEITH RHODES SLIDE 3 fantasy pics!1200 only Y
PS125 REVELATIONS SLIDE staggering quality art!+Y
PS139/40 SHED TEARS Nice Fantasy pictures.1200 ONLY
PS148/54 AWSOME JPEGS ray traced jpeg 24bit images(7)
PS157 CORNCIRCLES Slide full of mysterious corncircles! +Y
PS160 STAR TREK DESIGN FILE layouts of Trek ships etc+Y
PS162 T2 SLIDE Handrawn pics of The Terminator!+Y
PS163/4 NIGHTBREED AGA VOL 4 super pics! (2) AGA ONLY
PS165/7 WORLDS BEYOND sci-fi on 3 disks(3)AGA ONLY Y
PS168/9 SEVEN SEAS Quality fantasy art. A MUST have!(2) +Y
PS171 KEITH RHODES SLIDE 2 superb fantasy! 1200 only Y

GAMES

PG021 ATIC ATAC Really playable game! + Y
PG023 BATTLEFORCE strategy war game!
PG026 CASTLE OF DOOM Excellent! Get it + Y
PG028 COLOSSUS & WORLD Fab adventures !+ Y
PG032 DRAGONS CAVE D&D style game Mega+ Y
PG046 HACK Great text adventure-infocom style! +Y
PG048 HOLY GRAIL One of the best Text adventures+ Y
PG062 MENTAL IMAGE 1 Gridrunner invaders & rebound+
PG063 MORIA Classic adventure now version 5.4! +Y
PG068 NO MANS LAND Hi tech war game-shoot em up. +
PG071 POM POM GUNNER Like beach-head on the 64+Y
PG079 SEALANCE A submarine strategy game +Y
PG101 THE INSIDERS CLUB Stocks & shares game
PG121 A500+ GAMES PACK 21 games to run on a plus+Y
PG124 TOTAL WAR This is a good risk type game! +
PG153 WAR very good strategy/arcade game+Y
PG174 AMOS CRICKET Shareware cricket game,1 or 2plr+
PG178 MENTAL IMAGE 2 Three Excellent new games +Y
PG183 CATACOOMBS great D&D style game. VG.GFX +Y
PG191 ACT OF WAR New space strategy game! +Y
PG202/3 IRON CLADS Good strategic war game!(2)Y
PG218/9 CLASH OF THE EMPIRES Super strategy!+ Y
PG255 KINGDOM AT WAR Nice strategy war game!+Y
PG258 AGA TETRIS 1200 tetris game & more! Y
PG260/1 18TH HOLE A nice golf game! (2) +Y
PG262 AGA CHESS Needs 4mg of ram to play! AGA ONLY.
PG301/2 MOTOROLA 020 INVADERS For 1200 ONLY!(2).
PG303 MAD FIGHTER Fab PD version !(1200 ONLY
PG305/7 KLONDIKE II AGA Exellent,3 disks 1200 ONLY.
PG313 ROAD TO HELL Super driving race game!+Y
PG319 PROFESSIONAL BINGO Great , with speech+Y
PG325 MEGABALL 3 AGA The BEST version!!(1200 Only)
PG329/30 STARBASE 13 Graphic space adventure(2) +Y
PG333 ICERUNNER loderunner type platform!+ (Not 1200)
PG340 EARTH INVADER Nice space invaders clone! +Y
PG341 MUCUS Platform puzzle & a slideshow! +Y
PG342 DEPTHCHARGE Depth chargge the enemy subs!+Y
PG345 SICKBALL II Freaky ping pong game +Y
PG346 KISS THE CANVAS Control 2 huge boxer figures+Y
PG348 PARADROID Superb version for your Amiga!+Y
PG352 WAYNES WORLD PONG with samples 1mg+Y
PG353 YAHCTCY Great version of the game. +Y
PG354 TO THE DEATH Fantastic beat em up demo(2mg)Y
PG355 MEGABLOCK 2 Very nice Tetris game. +Y
PG357/8 ANT WARS nice lemmings game(1mg chip)+Y
PG359 ALIEN FRENZY Nice shoot up maze game +Y
PG360 RAISE THE TITANIC A nice 3d game! +Y
PG361 A DAY AT THE RACES Horseracing manager? +Y
PG362 INTREPID GAME Strategy game! +
PG363 SPITFIRE ASSAULT Shoot down the planes! +Y
PG364 GREEN 5 Commercial quality shareware game!+Y
PG365 DIGITAL ACID A vertical scroll shoot up! +Y
PG366 SENSIBLE MASSACRE Shoot the footballers! +
PG367 RELICS OF DELDRONEYE Preview of adventure!+Y
PG368 THE SHEPHERD Great shareware Populus style+Y
PG369 KNIGHTWOODE A nice graphic adventure! +Y
PG370 TOYBOX,KILLER TOMATOES & BOMBCLEAR! +Y
PG371 TEMPORAL MISPLACEMENT Adventure game.+Y

EDUCATION

PE001/5 EDUCATION SET science programs for age 11+ +Y
PE007/8 LEARN & PLAY Maths, spelling etc, 5-10 yrs +Y
PE010 TOTAL CONCEPTS ASTRONOMY Book on disk.+Y
PE011 TOTAL CONCEPTS DINOSAURS Book on a disk+Y
PE013 SIMON & SPACE MATHS Talking maths program
PE014 SPANISH, FRENCH, GERMAN TUTOR+ Not 600!
PE019 DUNKS DTP A sort of DeskTopPublisher for kids +Y
PE026 WW II FACTS Good historical program!+ Y
PE027 AMIGA BEGINNER Learn to use your machine+ Y
PE028 MATHS ADVENTURE Solve questions to progress+Y
PE030/2 DESKTOP GUIDE TO ELECTRONIC MUSIC(3) +Y
PE034 WORLD GEOGRAPHY Quite useful disk! +Y
PE035 KIDS DISK1 Super to learn reading! +Y
PE040 HOW THE EARTH BEGAN The full story! +Y
PE041 SINGALONG NURSERY RHYMES Good fun! +Y
PE042 CHILDRENS FAVOURITES More nursery fun! +Y
PE046 TOTAL CONCEPTS DINOS 2 PREVIEW Super +Y
PE047 ASI BACK TO SKOOL1 Style Count & Words +Y
PE048 ASI BACK TO SKOOL2 Simon Cal maths train etc+Y
PE049 BACK TO SKOOL3 Treasure search,Reflex etc+Y
PE050 THE LITTLE TRAVELLER Learn about countries+Y
PE052 COMMUNICATE Superb sign language teacher! +Y
PE053 HIWAY CODE QUESTIONS & ANSWERS Useful +Y
PE055 JUNIOR MATHS Suitable for young children+Y
PE058 WORD FACTORY Learn to spell! +Y
PE062 ANIMAL LAND Superb early learning!+Y
PE063 DINOWARP A nice quiz on Dinosaurs! +Y
PE066 THE STATES OF EUROPE Super book on a disk+Y
PE067/8 DISCOVERY OF THE ATOM science book(2) +Y
PE071 FRENCH VERB TESTER Test your French! +Y
PE072 CALCULUS MATHS Mental arithmetic tester! +Y
PE073/4 KIDS DISK 3 A comic book for kids(2) +Y
PE075/6 TUTANKHAMUN Educational slideshow(2) +Y
PE077 GCSE MATHS A very useful program! +Y
PE078 A - Z Paint Nice program for the kids. +Y
PE080 ILLUSIONS Follow up to Artistix. +Y
PE081 VISIT TO MARS Educational slideshow! +Y

BUSINESS

PB001 AMICASH bank management program+Y
PB004 ASI LABEL PRINTERS 3 of the best+Y
PB005 BANKIN control your cheque book! +Y
PB006 BUSINESS CARD MAKER Nice program+
PB007 CLERK Complete accounts package+Y
PB008 DESKTOP PUBLISHER Simple to use +Y
PB009 FLEXYBASE simple database! +Y
PB011 MISC.BUSINESS Geotime, Grocery list, Calc
PB013 QED Simple & effective text ed+Y
PB014 RIM DATABASE Fully relational !!+Y
PB015 TEXTPLUS V3.00 The BEST Wordprocessor +Y
PB017 VISICALC SPREADSHEET Simple to use+Y
PB019 BUSINESS LETTERS contracts, letters + more+Y
PB020 TEXT ENGINE 4.1 THE LATEST Version !!! +Y
PB022 BBASE IIv1.3 Latest version of super database+Y
PB023 FORMS REALLY UNLIMITED form creation prog+Y
PB024 LAST WILL & TESTAMENTS Just in case !+
PB026 AGRAPH Superb Program graphing data +Y
PB029 ADDRESS PRINT Good label printing program! +Y
PB030 THE MONEY PROGRAM Home accounting! +Y
PB034 ILLINOIS LABELS Super label program!+Y
PB035 BUDGET V1.34 manage personal finances!+
PB036 CHECKBOOK ACCOUNTANT V2.01 superb! +Y
PB037 AMIBASE PRO II Latest version of database! +Y
PB038 BUDOBASE V1.2 Very nice easy to use database+Y
PB040 PAY ADVICE ANALYSER V4 Latest version! +Y
PB041 AMIGAWORD A useful geographical database!+Y
PB042 EASYCALC PLUS+ Improved, only dos 2 or over!+Y
PB043 ACCOUNT MASTER Home finance program. +Y
PB044 EDWORD PRO V4 Superb new version! +Y
PB045 FH SPREAD A nice spreadsheet program! +Y
PB046 PERSONAL DIARY Keep track of your life.+Y
PB047 ON FORM V1.1 Exellent invoice/order printer+Y
PB049 CHEQUE MATE! Check your financial heath! +Y
PB050 EPOCH Address book & Calender programs! +Y
PB051 KBE REMINDER Personal organizer/calender +Y

AMIGA MUSIC DISKS!

PM010 AMEGA PARTY WINNERS Four WICKED songs+ Y
PM016 BEATLES SONIX Nice music +Y
PM112 TECHOMANIA II 8 essential hardcore tunes+
PM122/4 PLAYSID 2 (3) You must get this !!!! +Y
PM125 PLAYSID inc.RobHubbard, ManiacsOfNoise + Y
PM155 VINE G-RAVE 5 more good rave tracks!!! +Y
PM167/8 JESUS ON ES Crazy rave music demo! +(2)
PM179 PLAYSID V2.2 More old 64 style music!not!.3) +Y
PM200 DATA-X TRILOGY 3 raved up pieces! +Y
PM201 DATA-X THE VICTIM 6 more music tracks! +Y
PM203 BIO MECHANOID SYMPHONY NO 1 (1200only)
PM217 LEGALIZE IT 1 Great Amiga music disk! +Y
PM222 NEOPLASIA PHOBIA 5 fab music tracks+Y
PM223 ROB BAXTER'S METROLINK from Rob Baxter +Y
PM226 DATA X RENDITIONS More good rave music! +Y
PM227 DATA X EDGE OF DARKNESS 5 Jungle-core ! +Y
PM228 DATA X XMAS CRACKER Hardcore Carols?? +Y
PM229 WORM FOG Punk Heavy guitar music! +Y
PM230 MELODICALLY CORRECT Pleasant modules! +Y
PM231 RAVELENTH 3 well done rave tracks.+Y
PM232 MBC POING REMIX 10 Remixes of Rotterdam +Y
PM233 MBC RAY COKE SAMPLES disk of MTV team! +Y
PM234 MBC WIND IT UP Prodigy remix disk! +Y
PM235 MUSICALLY CHALLENGED trackered music. +Y
PM236 COLD FUNKY KILLER MK2 3 15 mins of techno!+Y
PM237 2UNLEMMINGTED : SINGLES flashy graphics! +Y
PM238 2UNLEMMINGTED : ALBUM Similar to above +Y
PM239 MOTIV 8 Five ravey tracks from the Beatmaster! +Y
PM240 SOUND COLLECTION 2 Some nice modules. +Y
PM241/2 TROOPER MODS 10 or so Octamed modules!(2)

ANIMATIONS

PA039 ERIC-S AMY VS WALKER Cute & sexy! 1.5M Y
PA040 ERIC-S BATMAN vs JOKER Very funny!!+Y
PA042 ERIC-S COYOTE STRIKES BACK 1mg too! +
PA043 ERIC-S MORE AEROTOONS Very witty !!+ Y
PA045 ERIC-S STEALTHY II Mig-29 vs Stealthy !+Y
PA053/4 LIGHT CYCLES (2) Tron animation+
PA065/68 REAL 3D (4) Superb of the program+
PA072 THE JUGGLER A classic amiga demo!+ Y
PA074 THE WALKER vs The Helicopter - Mega !+ Y
PA075 THE WALKER vs A2000 A classic ! + Y
PA086 FRACTAL ANIMATION full screen low fly anim+Y
PA091/3 GAS TURBINE, STEAM & PETROL ENGINE (3)+Y
PA094 AMY JOGS,WALKS & SNEEZES by E Schwartz! +Y
PA095 HOW TO RUN INTO A WALL by Eric Schwartz! +Y
PA101 DOLPHIN DREAMS Great Dolphin anim! + Y
PA103/4 KINGFISHER 2 Superb bird animations!+ Y
PA118 3 SCHWARTZ Skydive,Soft landing & bomber! +Y
PA119 STEAM ANIMATION V2.0 Now with sound! +Y
PA120 TWO STROKE PETROL ENGINE Super anim+Y
PA141 STIRLING II ENGINE Another fab engine anim!+Y
PA143 XMAS ANIMATION Amusing animation! +Y
PA149 SPAR TREK 6 Clever CD32 advert animation+Y
PA150 RAGING HORMONE Another funny anim.+Y
PA151 XWING ANIM Nice star wars animation.+Y
PA152 NATIONAL WEATHER Amusing little anim!+Y
PA154 DAFFY LOSES HIS HEAD Amusing animation! +Y
PA155 THE INCREDIBLE FLYING ZAMBINI BROTHERS!+Y
PA156 FLYING LESSONS An amusing cartoon animation!+Y
PA157 TWINGO A good Cartoonish French animation! +Y
PA158 CROWN JEWELS A queen on a galloping horse!+Y

POWER ANIMATIONS

PP001/2 ANTI LEMMINGS (2) This is Brilliant! 2M
PP003 AT THE MOVIES anim of Amy squirrel 1.5M+Y
PP004/7 AUTOMATED LIGHT (4) Battlestar galactica! 3M
PP008/10 BUZZED (3) Great anim of wasp crashing! 2M
PP011/12 DATING GAME (2) Very witty!, Get it. 3.5M!
PP016 GULF WAR Another ES production! Good 2M! Y
PP021/4 LANDING (4)Tobias Richter poweranim 4M!
PP025/27 STATION AT KHARN (3) Incredible 2M demo Y
PP036/7 WALKER DEMO (2) A 2mg version of a classic!
PP040/43 AT THE MOVIES II (4) Hilarious ! 1mg>3mg
PP044/45 AMY V WALKER II (2) witty ES demo 3M
PP046 SWEET REVENGE Coyote vsRoadrunner! 1.5mg+Y
PP050 UNSPORTING Wicked Schwartz cartoon+ 2M Y
PP051/2 CHARLY CAT Super Shwartzlike cartoon! 2mg.Y
PP053/4 CHARLY CAT AT THE BEACH 2nd anim 2mg/Y
PP057/9 CHARLY CAT CATCHES A CANARY Fab! 3MG.
PP060/3 CHARLY CAT MOUSTERMIND Great! 3.5MG.
PP064 DUNCAN DUNG BEETLE Unusual anim. 2mg.
PP065/6 CHARLY CAT SNOWJOKE Latest anim 2mg.+ Y
PP067/9 SPEED LIMIT 3mg motorcycle race! + Y (3)
PP070/1 LEMMINGS REVENGE amusing anim! 2mg Y
PP074/6 G.I. SPY 3mg anim from charlie cat author! (3)
PP077/84 THE HAUNTED Tremendous animation,3mg!(8)
PP090/1 ROADHOG ANIM Very funny 2mg animation!!(2)Y
PP099/100 AT THE FLIX Charlie cat again! (2) 2mg
PP101/4 QUALITY TIME Superb Shwartz 5mg anim (4)!
PP108/10 CHARLY CAT IN SICKNESS & HEALTH!(3)3mg!
PP111/2 BUGSBUNNY&SPACEMEN Action 2(2)mgY
PP117/8 PRANK ON FURBALL Cat has a pizza! 2mg (2)
PP119 BAITMASKING Another fun Shwartz anim 2mg(2)Y
PP120/3 LAST STAND ON HOTH Fab space anim!!(4)3mg
PP127/30 CHARLY CAT DANDRUFF DUO Amusing (4)3mg
PP131/2 ON THE GREEN Funny golf animation.3mg
PP133/5 CHARLY CAT AT XMAS Good, needs 3 mg!
PP136 ATTACK ANIM Great Gulf type animation!1.5mg Y
PP137/40 HEADING FOR HOME Raytraced space (4)3mg
PP141/4 MEAN MACHINE Console battle! MEGA (4)3.5mg

DEMOS

PD068 PHENOMENA ENIGMA Absolutely brilliant! +Y
PD093 SCOOPEX CHROMIUM Superb demo.+Y
PD094 SCOOPEX MENTAL HANGOVER A classic+
PD130/34 ALCATRAZ ODDESSY Awesome!! Ok on 500+!
PD182 SPACEBALL Absolutely brill,needs 1meg chip!+Y
PD185/6 ANDROMEDA MIRROR Fab Music & Graphics!+Y
PD187 HOY AGA DEMO 1st 1200 demo,a must! 1200 ONLY
PD188 SANITY WORLD OF COMMODORE Super demo+Y
PD189/90 SILENTS DEMON DOWNLOAD Fab demo! (2) +Y
PD202 TECHNOLOGICAL DEATH Freaky techno rave +Y
PD206 MELON HOW TO SKIN A CAT Nice effects! +Y
PD215 FAIRLIGHT 242 Unusual & interesting demo! +Y
PD216/7 A TRIP TO DEEP BASS A must have rave demo!+Y
PD218 VIVID ABSTRAX PIG AGA Mega colourful1200 ONLY.
PD221 POINT OF SALE Best AGA yet!! 1200 ONLY
PD223/4 SPACEBALLS 9 FINGERS This is MEGA!!(2) +Y
PD225 XANADU DEMO Superb colourful AGA only demo! Y
PD226 GROOVY by Lemon,super graphics demo! +Y
PD227 IMPACT NO LEM Super kaliedoscope effects.+Y
PD228 SILENTS SOZZLED SOMERSAULT Fab effects! +Y
PD233 PERSPEX HYPNOSIS dancing silhouettes AGA only!
PD235 AGATHA Nice effects & colours. 1200 only.
PD240 VOLCANO New AGA megademo. 1200 only
PD241 IT SMELLS LIKE CHANEL no5 Great! 1200 only!
PD243 FULL MOON AGA Nice demo 1200 only
PD244 BEYOND BELIEF AGA Nice music +pics1200 only
PD245 SANITY ARTE A Superb demo for all systems+Y
PD246 ABSTRACT SUBTLE SHADES Good demo!+Y
PD247 JESUS ON CHEESE DEMO Insane!!! 1.3 only.
PD248 FLYING COWS PRO SIAK Good needs fast mem+
PD249 KEFRENS INTERCHANGE Nice 1200 only
PD252/3 BIG TIME SENSUALITY A SUPERB Aga demo! (2) Y
PD256 EXODUS ON LAND A MUST have! 1.5mg chip+Y
PD257 ANDROMEDA SEQUENTIAL Nice crew demo! +Y
PD258 FATAL MORGANA Exellent with Beavis & Butthead! Y

CLASSICAL MUSIC

PM012 AMIGADEUS CLASSICAL Eine Kleiner etc. + Y
PM022/23 CLASSICAL MUSIC Bach, Handel etc +Y
PM035 DIGITAL DEBUSSY Fab R Baxter conversions!+Y
PM036 DIGITAL DEBUSSYII classic Debussy music!+ Y
PM070 RHAPSODY IN BLUE tracked by Rob Baxter! 1MY
PM082a/82b VIVALDI - FOUR SEASONS (2) V.Good !+ Y
PM090/91MOZART HORNCONCERTOS need 1mg chip+ Y
PM130/2 BACH BRANDENBURG CONCERTOS 1 to 6 +Y 3
PM150 DESKTOP HARPSICHORD RECITAL Classics! + Y
PM165/6 NUTCRACKER SUITE Super rendition!+
PM174 CLASSIC WORKS Grieg & Bach classics! +Y
PM175 SONIX MUSIC Some nice scores here!(loadwb)+Y
PM183 CLASSIX GOLD Bach Toccata& Fugue (1mg chip)
PM184 MOZART FLUTE CONCERTOS 1mg chip! +Y
PM218 HANDELS FIREWORKS MUSIC (1mg chip) +Y
PM220 SONGS FROM THE GUIDE Rob Baxter 1mgchip +Y

MUSIC UTILITIES

PT009 K1 IFF SAMPLES Fabulous samples +
PT011 KAWAI K1 editor for patch changes!
PT012 KAWAI K4 editor as above!
PT013 MED 3.2 Excellent music seq. + Y
PT015 MIDI DISK Various midi stuff +
PT020 ST-01 - ST-10 Samples--Ring for details
PT025/6/7/8 ST-90-93 SAMPLES Studio quality+ Y
PT031/2/3 ST-87 - 89 3 disks full !+Y
PT034/5 ST-97 & 98 More samples !+Y
PT038 YAMAHA DX100,TX81Z, DX27,DX11 & FB01 editors
PT040 OCTAMED V2 8 channel MED sequencer!+
PT041 NOISEPLAYER 4.0 Multitasking module player+
PT042 START IFF SAMPLES Superb ! Get this disk!+Y
PT043/5 HOUSE SAMPLES 3 disks full of house samples!
PT046 AUDIO MAGIC3 Super trackers disk, ok on 1200+Y
PT047 AUDIO MAGIC4 More Superb music programs! + Y
PT048/52 MODULES 5 disks of large music modules!+Y
PT053/57 METAL MODULES 5 disks heavy rock/metal! +Y
PT058/62 BREAK BEATS 5 disks of drum samples+Y
PT063/67 VOCALS 5 disks of super vocal samples!+Y
PT068/70 DRUMKITS 3 disks of high quality drums!+Y
PT071/73 KORG SAMPLES 3 disks of keyboard sounds+Y
PT074/76 PURE SAMPLES Lots of assorted samples!+Y
PT077 SAMPLE FACTORY Disk full of sound effects!+Y
PT078 CHIPMAN SAMPLES over 70 samples here!+Y
PT080 XI RAVE SAMPLES Bass & Drums! +Y
PT081 SAMPLEMAKER V3.1 Make samples, +Y
PT086 CHIPMAN SAMPLES II More samples! +Y
PT088 X-BEAT V1.1 Exellent drum machine program!+Y
PT089 AUDIO MAGIC5 Some new tracker programs.+Y
PT090 SOUND EFFECTS Animals,Military & Vehicles(3)+Y
PT093 OCTAMED TUTOR Very useful for learners! +Y
PT095 AUDIO MAGIC 6 FM synth,Quaddra & more! +Y
PT096/7 MT32 MIDIFILES for Roland MT32 module! (2) +Y
PT098/109 crammed with hundreds of midifiles! (12) +Y
PT110 ESSENTIAL SOUND FX 1 good sound effects +Y
PT111 ESSENTIAL SOUND FX 2 Lots more great effects! +Y
PT112 SOUND EFFECTS 88 effects on this disk(not iff)+Y

AMIGA UTILITIES DISKS

GENE Good geneology program + Y
A64 EMULATOR NEW VERSION 3.0 (2)
MATEUR RADIO 1 Interest to radio hams + Y
SI GRAFFIX UTILS graphics convertors etc+Y
SI BOOT UTILITIES bootblock utilities + Y
LIGHT RAY TRACER Good program+ Y
HEMESTHETICS molecule displayer + Y
COPY The best PD disk copier & more + Y
LECTROCAD DEMO circuit designer +
RAPHICS UTILITIES Various misc. programs+Y
AMLAB PRO V2.08Convert VGA PC >IFF/HAM + Y
ARDDRIVE UTILS MRBackup & FixDisk & more+Y
CONMANIA Program icons & more !+ Y
CONS Cramm packed with icons !+ Y
MPLODER V4.0 Megacrunching Util+ Y
AZZBENCH Alternative Wb for 1.2/3 users.
R COMM 1.02 Modem users comms package Y
KING JAMES BIBLE Old&New testaments (4)+ Y
CAD Hires design package. Excellent + Y
ESSY-SID 2 Read/Write PC Files, Brilliant!+ Y
ORSE PROGRAMS for the radio hams. Y
NORTH C 1.3 (2) Complete C compiler & libs+ Y
ORTH C 1.3 This is the packed 1 disk version!+Y
RINT STUDIO V1.25 Prints pics & text etc.+ Y
T A simple 3D drawing package.Very popular.+Y
(2 disk) Structured clipart for Ppage + Y
SOMETHING FOR NOTHIN Video Utils&Fonts+ Y
EMULATOR Run Atari ST software !! 2 Drives
TV GRAPHICS Dpaint backdrops&Fonts+(2) Y
LTIMATE ICONS Iconmaster,Iconlab,+ Y
LTRAPAINT v3 A nice paint package!
VIDEO APPLICATIONS Video utilities+ Y
RAPHICS CONVERTERS PC>AMiga gfx Converter
PTIUTILS 1 Crammed full ! Get it+ Y
PTIUTILS 2 Get this disk too ! + Y
LECTRONIC PROTOTYPER Veroboard designer Y
CLIPART SET: 15 Disks of the BEST clipart +Y
ULTI-PLOT Superb data plotting program ! +
CHARD SMEDLEY COMP Vat Checker & more.
OCK ANALYST Technical analysis program+Y
RONIK VIRUS KILLERS 21 virus killers & docs!Y
ANDBUILDER fractal land generator+Y
D 2 Get this ! directory util !!! MEGA!+Y
DEO WIPES Masks & fades Dpaint 3/4 +Y
CLOPS Weird Plasma/fractal creator ! +Y

PU203 SCOPE 184 utils & clips for Ppage Y
PU204 GATOR GRAPHICS Dpaint tutorial disk.+
PU205 PC TASK PC Emulator Now Version 2 VGA! +Y
PU208 ASI HANDYTOOLS 3 mega compilation of utils Y
PU209 FRED FISH CATALOGUE contains FISH 1 - 890 +Y
PU210 PCQ PASCAL Latest version of this pascal compiler+
PU221-225 8 COLOR ICONS Hundreds of new icons +Y
PU229 JPEG 24 bit graphics compression util disk! +Y
PU230 MORE PRINTER DRIVERS new printer drivers!+Y
PU240 FREECOPY V1.4 powerful disk copying program!+Y
PU245/256 C MANUAL Latest version on 12 disks! (12) +Y
PU272 GOLF RECORDER Database for golf scores!+ Y
PU274 TRONICAD V1.36 Electronic circuit design!+Y
PU279 V MORPH V2.30 Yes a PD morphing prog!!+ Y
PU282 ASI MULTIVISION 2 Imagelab,Wasp & more,super+Y
PU285 WORKBENCH 3 BACKGROUNDS, 1200 ONLY
PU287 NUMPAD Numeric keypad emulation!(600 ONLY)
PU288 ENGINEERS KIT Test your Amiga system! +Y
PU291 1200 WORKBENCH HACKS Useful utils! Y
PU292 1200 UTILS1 Gif & PCX datatypes etc!A must!Y
PU293/317 25 disks of Ham radio software! (25)+Y
PU330 SLEEPLESS NIGHTS Utils useful for 1200!Y
PU348 SPEED UTILS Fixdisk Headclean Snoop & more!+Y
PU349 NCOMM V3.00 The latest version comms disk! +Y
PU351 ASI FIX DISK Get old programs running on dos2/3+Y
PU352 HP 550C & Cannon Bubblejet printer drivers! +Y
PU355 SUPERDARK Superb & unusual screen blanker! +Y
PU357 CANON PRINT STUDIO A must for BJ owners! +Y
PU358 PPAGE TEMPLATES,GENIES etc. Very useful!+Y
PU359 PRO PAGE HELP DISK Extremely useful disk!+Y
PU360 WINDBLEND Super effects but 1200 only! Y
PU361 XPK COMPRESSION UTILS compression progs!Y
PU369 TV TITLES DEMO Shareware Titling program! +Y
PU372/3 PARNET SOFTWARE Link 2 Amigas! (2)+Y
PU374 1200 UTILS 3 More new 1200 utilities!+Y
PU381 SPECTRUM EMULATOR V1.7 Works ALL Amigas! +Y
PU384 THE GENEOLOGIST Superb Family database! +Y
PU387 REORG A good disk & Harddisk optimiser! +Y
PU388 1200 HD PREP For all 1200 owners! Y
PU389 HD CLICK The latest version! +Y
PU393 ASI FIX DISK 2 Second exellent fix disk! +Y
PU394 GRINDER V1.0 Picture file converter! +Y
PU396 BAD FORMAT Make unusable disks work! +Y
PU420 PARNET CDTV BOOT DISK For networking +Y
PU421 ASI DISK HELPER 1 Disksalv2,Doopy 3.1 etc+Y

PU423 MULTIVISION 3 More super graphics utils+Y
PU425 MAGIC WORKBENCH Unpacks 8 colour Icons+Y
PU426 LOCKPICK2 Unprotects many programs.+Y
PU427 ASI DISK HELPER 2 More useful utilities+Y
PU430 GARDEN DESIGNER Design your garden.+Y
PU432 BLACKBOARD Image processing program+Y
PU433/4 TWIN EXPRESS Amiga-PC comms linkup (2).+Y
PU440/5 IMAGINE OBJECTS & JPEG TEXTURES(6)+Y
PU446 CRUNCHERS PACK 30 different crunchers!+Y
PU447 ASI MULTIVISION 4 Minimorph, agalab & more! +Y
PU449/50 DICE V2.5 C COMPILER for programmers (2 Disks)+Y
PU457 ASI VIDEO TITLERS Super video set. +Y
PU458 ASI WORKBENCH 2/3 UTILS Very useful.+Y
PU459 JPEG DATATYPES For Workbench 3 (1200 only)
PU460 ASI VIRUS KILLERS Virus Z & much much more+Y
PU461 ASI MULTIVISION AGA Superb, for 1200 only!
PU462 PROCAD ELECTRONIC V1 Super PCB designer! +Y
PU466 VIDEO WORKSHOP Exellent video borders+fonts+Y
PU467/8 WEDDINGS DTV brushes,pictures &anims(2)+Y
PU469/70 SCALA BACKGROUNDS Hires backgrounds(2)+Y
PU471 CDTV-CD32 ADAPTOR How too make your own.+Y
PU480 C.A.G. Create your own adventure games! +Y
PU481 ASI MAGIC ICONS Loads of icons! +Y
PU484 KNIT Good knitting pattern program! +Y
PU489/90 TERM Super modem package (2) +Y
PU491 SUPERLEAGUE V3.4 Very good. +Y
PU492 X-PASSWORD protection for hard drive etc!+Y
PU495 SIRDS Stare to see the hidden images? +Y
PU496 BLITZBLANK Good screenblanker. +Y
PU498 IEv4 ICON EDITOR A 256 colour icon editor Y
PU499 CITIZEN PRINTER MANAGER For Citizen printers!+Y
PU500 VIDEOTRACKER AGA (Shareware) Make videoclips! Y
PU501/4 VIDEOTRACKER DATA for the above program! (4) Y
PU505 DMS DEVICE MASHER Archive all of your disks! +Y
PU507 SIRD CREATOR Creates those stange hidden pics!+Y
PU508/20 MORE IMAGINE OBJECTS Yes 13 disks full!(13) +Y
PU532 SERNET/PARNET Installation for CD32-Amiga link+Y
PU533 MAGIC TRICKS Magic card tricks with your computer+Y
PU534 FOOTBALL ICONS 8 colour icons of Football teams! +Y
PU535 BACKDROP STRAMASH Wb 3 backdrops(1200 ONLY)

LSD LEGAL TOOLS DISKS 1-149 in stock, packed with every utility imaginable! Catalogue disk Available!

ANY ASSASSINS SET of 30 only 24.99 inc p&p. for deals on larger quantities please ring!

ASSASSINS GAMES PACKS

The best selection of PD games ever assembled anywhere now all autoboot on A1200! (though not all games will run)Something for everyone!

ASI 87 Aztec Challenge,Jonas Fullstand & Landmines+
ASI 88 Defender, Relayer & Mosaic! +Y
ASI 89 Megaball 2.1, X fire and Chaoric!+Y
ASI 90 Flashbier, Startans & Minefield! +Y
ASI 91 Roton, Matrix & Spectrum! +Y
ASI 92 Bill, Obliden, & Solitaire Sampler! +Y
ASI 93 Smash bang wallop, Mr Munk & Alien bash!+
ASI 94 Super skoda challenge,Merchantoid & Giddy! +
ASI 95 Premier pics,Tangle,Bop & Flop etc+
ASI 96 Dungeon Flipper,Backgammon masterbike+
ASI 97 Bunnyblast,Mutants from Mars, etc!+Y
ASI 98 Skychase The Phone company & Neutor cards +Y
ASI 99 Gribit, Paramount, Space Wars & Org! +Y
ASI 100 Bloodrunner, Patience & Monaco! +Y
ASI 101 Meltdown, Paragon Boomerang & Rothello! +Y
ASI 102 Fruit Salad, Rebound & Pacman! +Y
ASI 103 The Lost Occrent, Wacky wabbit etc!+Y
ASI 104 Wooden Ball, Operation meteor etc !+Y
ASI 105 Particle man,Rummy & Desert defender! +Y
ASI 106 Simon,Cosmoroids II Willy worm etc+Y
ASI 107 Serene III, 4 row 3d Equiling & Yacht C ! +Y
ASI 108 Strikeball, Ringwar, Four in a row & Obsess! +
ASI 109 Psyco blast,King high, Thrallbound+Y
ASI 110 Space rescue Tiles Zerg & Husktron! +Y
ASI 111 Karate worm II, Stax & Billy Dragon. +Y
ASI 112 Thunderton II Aliens Tron & Step 2! +Y
ASI 113 White rabbits pre,Trek trivia & Popeye!!! +Y
ASI 114 International Cricket pre,Insectoids II etc +Y
ASI 115 Star trek shoot up,Egyptian run Slime line etc+Y
ASI 116 Blue Diamonds4 Tach & Sorry! +Y
ASI 117 AirWarrior, Triple Yachtzee & Yoogi! +Y
ASI 118 Zombies, Armymines 14 & The last Tetris! +Y
ASI 119 Roboulddix, Speed cards & Trik trax +Y
ASI 120 Fireblaster, Super blockout & Trax.. +Y
ASI 121 Chainsaw massacre, Brainbow & Worm.+Y
ASI 122 Boulderdash collection,Project Buzz XenonIII+Y
ASI 123 Artilleros II, Lamerbug & Yahtzee.+Y
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So much fun for so little cash! It can only be this month's barrel of PD laughs, as hosted by Tony Horgan.

BREATH TAKER

A1200 demo

This is a large demo. So large, that you need 3.5Mbs of hard drive space and 4Mbs of Fast RAM to run it. In a break away from normal demo traditions, Breath Taker is mostly made up of pre-rendered 3D visuals, rather than real-time generated effects, hence the massive memory requirements.

It's a collection of abstract 3D animations, pinned together with brief captions and comments. The Virtual Dreams team have created a dark world of throbbing tunnels, mountains, organic chambers and extra-terrestrial constructions. These are viewed in wonderful 'fly-around-o-vision', in a chunky window that fills the middle third of the screen. It's all set to a burbling acid soundtrack. Very nice.

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry CV6 7NB. Tel: 0203 681687. Disk nos. D0305a+b+c+d+e (five disks). Price: £7.25 including P+P.

89%

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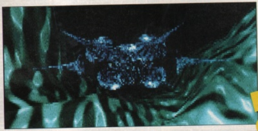
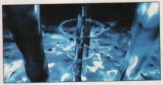
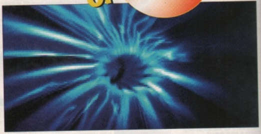
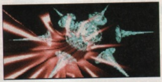


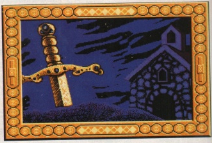






QUEST FOR EXCALIBUR

game

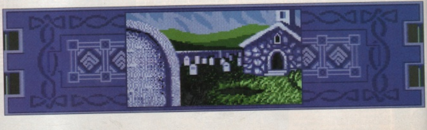


I haven't seen one of these in years. It's a good old illustrated text adventure. You play the part of Arthur, would-be King of England. The game begins with you as a boy, at the start of a quest for your right to the throne. Merlin magically appears before you, gives you all the spiel about the sword in the stone, and then leaves the rest for you to figure out.

From then on, it's 'Go North ... Examine sword ... Take potion ... Open gate ...' and all of that stuff. If you haven't played an adventure game from the pre-point-and-click era, this could seem like a hell of a lot of work. Alternatively, if you like a good story, and miss the style of old text adventures, you'll definitely go for this. Both the programming, and the writing of the text is neat and well thought out. Give it a go if you fancy a bit of typing practice.

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry CV6 7NB. Tel: 0203 681687. Disk no. G0255. Price: £2.75 including P+P.

80%



THE MAD PREACHER

music demo

Just the job! After wading through stacks of mediocre music demos and modules, this has restored my faith in Amiga musicians. You don't get any flashy graphics or scrolly messages, but you do get four top-notch dance tracks with some great samples. The title track has a ranting evangelist-type spouting on about the evils of television, over a stomping technoid track. Dream, the second track, is more of a head-nodder than a floor-filler, with some nice analogue sounds and an insistent piano loop. The third track plods along nicely, in a housey style. Finally there's a remix of the first track, this time leaning towards hardcore techno.

Good tunes and very good sound quality. Lots of fun and lots of noise.

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry CV6 7NB. Tel: 0203 681687. Disk no. S0242. Price: £2.75 including P+P.

88%

GIGERPHOBIA

game

How on Earth they managed to stretch this licenceware *Breakout* game across two disks, I don't know. If you can stick with it long enough to get into the game itself (you'll need to sit through the painfully slow intro sequence), you'll be presented with a vertically scrolling bat and ball game. Here's the twist: instead of knocking out bricks with the ball, you knock the stuffing out of an alien! When you've disintegrated enough aliens, you can move onto the next level, which comes with its own revolutionary new colour scheme! Recommended to *Breakout* fans who always thought the game should have an alien in it, and scroll up and down.

Available from: Essex Computer Systems, 15 St Nicholas Road, Tillingham, Essex CM0 7SQ. Tel: 0621 778778. Price: £5.50.

40%

NANOFLY

game

Crikey! It's a simple collect 'em up game, set in a series of scrolling mazes. Exciting stuff eh? Well it is if you like going around mazes collecting things. Maybe this should have been written with a built-in editor – at least then, you could customise it to suit your own hobby. For instance, philatelists could change the sprites to stamps, and pottery collectors could change them to teapots and vases.

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry CV6 7NB. Tel: 0203 681687. Disk no. G0258. Price: £2.75 including P+P.

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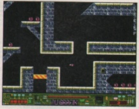

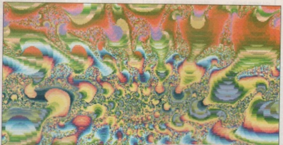

DESPAIR

A1200 demo

It's a moody little chappie, this one from Insane. The ominous techno soundtrack gives the speedy, slick visuals an extra hint of scariness. There's not that much to see really, but even so, you get all the flavour of the month effects, like the rotating and zooming bitmap graphics, chaotic vector patterns, and an old style vertical copper bar sequence. From then on, it's back to normality, with a slow tinkly tune and the credits.

Available from: Freestyle PD, 108 Woodside Way, Short Heath, Willenhall, West Midlands WV12 5NH. Tel: 0922 404023. Price: £2.50 including P+P.

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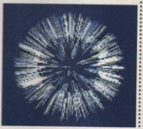

RUMBLE RUBBLE

A1200 demo

It's got energy, even if the graphics and sound aren't up to much. This is one of those non-stop 200mph demos that chucks up loads of strobes and wibbly bits to the backing of a pootling techno soundtrack. Among the effects is a realtime ray-traced ball that updates at about two frames per second. Impressive? Not from where I'm standing! Although most of the effects are on the tame side, there's a nice tunnel of rotating stars, a ray traced animation loop and a strangely colour-cycled fractal pattern. Rough, but mildly entertaining.

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry CV6 7NB. Tel: 0203 681687. Disk no. D0301. Price: £2.75 including P+P.

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MR MONKEY

A1200 demo

A cheeky little monkey skips across the screen to open this one-disker from The Rebels. If you can sit through the tedious patterns with dots and sine waves, there are some good effects to follow. The plasma is particularly nice, although it's confined to a large box, rather than filling the whole screen. An over-long section of blurred bob patterns give way to some clever real time bitmap contortions, before a pleasant firework fountain display gives the credits a bit of zest. Quite slick, but demo fans will have seen it all before.

Available from: Freestyle PD, 108 Woodside Way, Short Heath, Willenhall, West Midlands WV12 5NH. Tel: 0922 404023. £2.50 including P+P.

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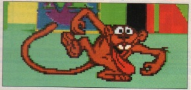

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F1007 Fortress (2Mb Chip + Only) £3.99
Rated 88% A.POWER (Jun 94). Rated 90% THE ONE (Jun 94). This is a war Arcade/Strategy game based on the likes of MEGALOMANIA and POPULOUS, with Excellent GRX, sound FX and an addiction level that will keep you glued to the monitor for simply yonks!"......Absolute marvel to behold," said A.Action (May 94)" ......Graphics are gorgeous ...I loved it!" Said The One (Jun e 94).

F1006 Blackboard v2.0 (2 Disks) £4.99
Earlier version rated 88% CU Amiga. New version rates 90% Amiga Shopper. "AGA owners get near 24-Bit graphic manipulation ....Should be on your shelf if you are into graphics," said Amiga Shopper. Blackboard is an image processor written specifically for the AGA chip-set machines, although Blackboard will run on any Amiga with the following system REQUIREMENTS: 2 floppy drives (or hard drive) and a minimum 1 meg of memory.

F1001 Magnum Pro £3.99
Earlier version recieved 93% CU Amiga (Oct'93). This is the final version of the acclaimed disk magazine creator with loads of NEW features. Amos source included to create you own interface!

F1002 Cricket Crazy £3.99
Reviewed in A.Power (Apr'94) "Nearly as good as the commercial Cricketsims! ...Just about every aspect of cricket covered. "Cricket Crazy is the most advanced cricket simulation yet, combining arcade action and strategy in a mix of fun and friction that even non-cricket fans will enjoy. Humoungous amount of features!

F1003 Absolute Beginners Guide To Amos (v2.1) £3.99
A.B.G.T.A has been written with the complete novice in mind and introduces all the early commands every beginner needs to overcome. Loads of example progs ready to run (need Amos)....Set up to print for Epson printers for easy printing of articles.

F1004 Super Fun £3.99
Super fun contains four education programs for children in the range of 5-9 yrs. Great solve the sums game, Make you own records using 750 different sounds, junior version of Mastermind with numbers and a prog which allows you to see any time-table from 1-99

F1009The Rainy Day Disk £3.99
The Rainy Day Disk is an excellent compilation of 5 childrens educational programs. The recommended age range is for 4 to 8 years olds. Paint Box allows children to easily colour in one of ten pictures. Tiny Tunes has 10 popular nursery rhymes in a copy and play enviroment. Wordsearch - Find the hidden words in each of ten different puzzles. Story Book - Henrietta Hen, Ferdie Fox, Bertie Bee and Frank Frog. Scribble Pad - Make you own pictures in this mini-art program.

F1010 Karate Master (Requires at least 1.5Mb) £3.99
Karate Master has all the speed and variety of moves and excitement of the real sport. 1 or 2 Players, 99 levels, Timer on/off option, Sub game every two levels + other features. Reviewed in A.Action (Apr'94) - "You should be impressed "Reviewed in THE ONE (May'94) - Rated 80% Reviewed in A.Power (June'94) - Rated 4 out of 5 (80%).

F1012 Obliteratives £3.99
Obliteratives is an arcade skill game for 1 or 2 players. Create your own IFF screens to use as the play area!

F1013 Through the Red Door £3.99
Reviewed in CU AMIGA (May'94) - "Another great educational pack. "Four educational programs for 3-5 yr olds.
1 - Choose colour of objects in the playroom, countryside & seaside
2 - Help Sarah find missing animals in the shop,garden and bedroom.
3 - Help to dress Sarah and Simon in the correct clothing.
4 - Find the objects begining with the selected letter.

F1014 Tots Time £3.9
This one is mainly for the very young child up to four year olds, has three programs.
1 - Press any key in alphabet views pictures relating to that letter
2 - Click on a number to reveal a picture pertaining to that number.
3 - Click on a picture to hear a sound relating to it.

F1018 Relics of Deldroneye (4 Disks) (2Mb Chip only) £6.9
Review in The One (Jan'94) "Good a value as any of the big boy games "(Full price games), "Top stuff buy it!" Rated 91% A mouse driven interactive adventure with great graphics, sound FX & animations. Contains brain numbing but logical puzzles, 64 colour gfx and around 100 locations. Like Monkey Island/Lure of Temptress.

F1019 Touch 'n Go £3.9
Reviewed in The One (Jun'94) "As far as puzzle games go, has everything you could want ....Features an excellent number of levels & layouts. "Rated 87% This is an excellent arcade/puzzle game which supports passwords, 100 levels, parralax scrolling and wicked backdrops, cool music and sound FX. Demo version appeared in The One cover disk June 94.

F1022 Ask Me Another £3.9
This disk gives tremendous value for money, it contains 20 individual learning modules that're both fun and cover a wide range of different learning techniques. This is intended for children aged 3 upwards. The modules are: Shapes, Time, Words, Adding, Colours, Homes, Money, Sequences, Matching + 11 others.

F1023 Pick and Stick £3.9
This one is for children of up to six years old. Pick and Stick is a very simple, but fun, picture creator. The child can choose from 3 different settings, SEASIDE, FAMILY or UNDERWATER. The child then has around fifty different objects to PICK and Stick on the background picture to create their own scenes.

F1024 Maths Monkey £3.9
One of the best educational packs we have. This one is for approx. 7 to 12 year olds. Learning modules are:
1 - 32 clock/time questions of 4 different types.
2 - 24 question covering addition, multiplication, subtraction and division.
3 - Different maps teaching the child o read coordinates. The child interacts with a ruler, measuring objects on screen.
4 - How much is? type in the value of ...etc.
5 - An excellent way of graphically teaching fractions.

F1025 Art School v1.1 (2 Disks) £4.9
Don't be misled thinking this is a kids program, it is, but EVERYONE will love this awesome art package that is just bristling with original and innovative features. It can do everything you would expect from a commercial art package and plenty more besides! Buy this product now before the author realizes he could be selling it at 30 quid a time. There are far too many features!

F1026 Take a Look at Europe £3.9
This is aimed at eleven year olds and upwards. The 6 modules are:
1 - Type in the name of each country (in Europe) the jet plane lands on.
2 - You are presented with a map of a country and its name, you must match this to one of the 24 capitals given.
3 - Name the ocean the whale is currently swimming in.
4 - Enter the name of the country whose flag is shown.
5 - Match the 25 currencies to the correct (map shown) country.
6 - Gives information on each european country in the form of: are, Capitol, Currency, Population and language.

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DISK MAGAZINES

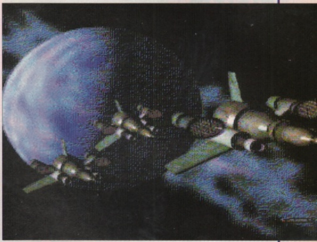
CYBERPUNK NOW!

issue 2

Suddenly all of this cyberpunk stuff is in vogue. Everyone wants to hook up to the Internet and go charging off down that digital highway to virtual heaven. *Cyberpunk Now!* has three sections to satisfy all of this techno-lust.

First is the Cyberpics part, which has seven good images, covering science fiction and abstract spacey patterns. Then you've got the Cybertext. which includes 20 documents on subjects such as cybersex, space art, antigravity, Internet, and some short stories. Finally there's the CyberAnim section, taken up in this issue by a nice looping Tobias Richter movie of the Starship Enterprise sweeping in from the distance. The presentation is pretty basic, but that's no problem. This is real PD by the way: just a quid for the disk, and that includes post and packing! Check it out.

Available from: Asgard PD, 20 Langdale Drive, Wakefield, West Yorks. Tel: 0924 363059. Price: £1.00 including P+P. **78%**



AM/FM

issue 19

As ever, the latest issue of *AM/FM* delivers another generous package of articles, tunes and utilities for all Amiga musicians. There's a good variety of features, including reviews of tutorial video tapes, a look at *Music X 2* and *Notator X* (including stacks of screenshots), an excellent article on creating original sounds through distortion and 'misuse' of equipment, demo tape reviews and loads more. The standard of the writing is awful in places, but fine in others. Bjorn Lynne does an excellent job of compiling the magazine, but the text could do with some heavier editing.

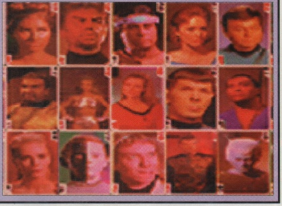
Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry CV6 7NB. Tel: 0203 681687. Disk no. AM043. Price: £3.25 including P+P. **80%**

STAR TREK CARDS

klondike AGA disk 9

Fancy a nice game of snap, gin rummy or bridge? No, well you'll definitely feel like practising your fancy shuffles when you cop a load of this card game. A while ago, a PD card game called *Klondike AGA* was released. Somehow it slipped through our PD review net, but since then, there have been many support disks released. The format of *Klondike AGA* is such that third parties can release their own files of card graphics (such as this), which can be loaded into the main program. High definition grabs from *Star Trek* have been used for this one, and very nice they look too. The original *Klondike AGA* game is also available from Cynostic PD.

Available from: Cynostic PD, Office 01, New Enterprise Centre, Little Heath Industrial Estate, Old Church Road, Coventry CV6 7NB. Tel: 0203 681687. Disk no. G0244. Price: £2.75 including P+P. **81%**



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U846 C64 EMULATOR V3 latest release much improved Comodore 64 emulator "C64 UTIL (2 disks)

GAMES

G096 POPEYE LCD C64 classic conversion
G112 CUBULUS Puzze games based on a RUBIK CUBE
G222 MEGA 21 GAMES collection of 21 game packs
G235 DRAGON CAVE The best animated 3D puzzle game ever. Very similar to Dungeon and Dragon type games.
G237 SCRABBLE high quality board games conversion. Up tp 4 player or play with computer(not A1200)
G256 INSIDER CLUB buy/sell stock exchange games. Share objectives of the games is making money
G272 TANK BATTLE Brilliant 2 player game
G274 MR DUG Arcade conversion (few years back)
G329 MADONNA NUDE PUZZLES 15 puzzles (jigsaw game)
G330 TOP SECRET Brilliant platform games similaar to OCEAN RAINBOW AND PARASOL (not A1200)
G333 CYBER NETIC regarded the best defender type games with all usual powerup .Recomended
G334 DONKEY KONG Rescue your girlfriend (not A1200)
G335 CRAZY SUE 2 cute platform games. Brilliant graphics
G356 WONDERLAND brilliant Mario Brothers games clone
G362 DELUXE PACMAN Still the best Pacman ever released
G366 BINGO CALLER Amaze your gran with this fully speech bingo caller
G373 AIR ACE II Very playable ZENON 3 shoot games
G389 CASINO GAMES Lots of casino type games
G390 TETREN tetrix clone (90% mark in AMIGA FORMAT)
G393 BUBBLE GHOST Game boy conversion and very playable
G400 FIGHTING WARRIOR PD version of Street Fighter 2 amazing large graphic & is it £23.99 cheaper
G410 FATAL MISSION Nemesis clone with 1 or 2 player
G417 FIVE STAR 22 PUZZLE PACK Amazing collection of 22 puzzle type games, our top seller
G422 SERENE 3 similar to the commercial game ZENON
G435 ROULETTE the best casino roulette simulation yet

FREE
16 PAGES PD DIRECTORY

Yes free 16 page printed catalogue giving full description of our entire 4800 + disk (remember this is only a small list of title available) & include many selection that not list like B&W /Colour Clipart, Lsd Doc, Fred-Fish, Assasin games etc etc. To obtain a copy just enclose an extra 36p with your order to cover the extra postage or send a large 36p SAE.

G438 TRAINBLAZER conversion of the C64 classic game
G441 E TYPE 2 the best asteroid clone ever
G443 OLYMPIAD DISK (2 disks) Sport even with Lemmings with the star (very good)
G460 WIBBLE WORLD GIDDY Brilliant platform game with very large & cute graphics similar to the dizzy series
G470 BALL LIGHTING 1 or 2 player multi level platform
G490 MEGA BALL 2 new and highly playable breakout
G500 TRANSPLANT voted the best game of 93, brilliant E-Type clone but much better, loads of powerup & level
G502 DRAGON FIRE Excellent graphics (A500 only)
G519 LABYRINTH II Very good text only adventure
G520 FATAL MISSION 2 (new see G410)
G521 FRUIT SALAD VG Collect/ platform type games
G530 MAD FIGHTER (A1200 only) Supberb street fighter 2 clone with very large well animated charicters
G531 OPERATION FIRE STORM detailed graphic platform games with lots of action/shooting element. Briliant
G532 AGA KLONDIKE (A1200 only) (3 disks) the best card games yet & each card has different glamour girls pic
G535 BLACK DAWN the best RGP games yet similar to HIRES GUN, very highly rated in most Amiga magazines.
G540 ORK ATTACKVery bloody shooting games with large and detailed graphics
G545 KUNG FU CHARLIES Very cute & playable Kung Fu games with platform
G560 IMPERIAL WALKER Take control of an X Wing fighter in this 3D game
G567 STAR BASE 13 (2 disks) Brilliant graphics Epic adventure like Monke Island 2. Recommended
G568 MONACO Fast furious racing games
G569 SUPERIX Birds eye view Formula 1 racing games
G525 GRAND PRIX MANAGER 93 Very good management type gam, use point & click system. Good
G526 MENTAL IMAGE 1 contains 3 games
G527 MENTAL IMAGE 2 contains 3 games
G528 MICRO MARKET well presented stock market games
G529 SKID MARK extremely realistic & very playable 4x4 of road racing games
G534 CASTLE KUMQUAT Very good overhead (like Alien Breed) games puzzle with lot of inter connect level
G542 ROAD TO HELL Brilliant 1 or 2 player overhead view car racing games with engine upgrade option etc
G544 SUPERTOM CAT New vertical shhotem up games
G546 RAID 4 more refined vertical shhot em up
G657 AMOS LOADSA MONEY another very good fruit machine simulation with exceptional large reel
G659 SLAM BALL Manage your own futuristic team
G660 L.C.D. DREAM Straight conversion of 4 LCD games including Octupus, Parachute, Fire Attack, Oil Panic
G661 POP QUIZ Answer by click on A, B or C box. More games compilations see the ASSASSIN collection
G662 JELLY QUEST 3D colouring games similar to q bert
G664 NEIGHBOUR GAMES (2 DISKS) graphic adventure
G667 GOLF (2 DISKS) One of the first PD GOLF games
G668 AMOS CRICKET 2 New Amos cricket simulator, very playable if you like this sort of game
G669 MUGSYS REVENGE gangster graphics adventure
G670 ESCAPE FROM DOOM animated graphic adventure
G671 DUNGEON FLIPPER This is the first & only Pin Ball
G672 JIGSAW (2 DISKS) jigsaw games
G673 "BOBBY" GARDEN + DIGGER (NEW) 2 digger type
G674 HIGH OCTANE (NEW FASTER VERSION) not A500 1.3
G675 TIME RUNNER III very similar to the FLASHBACK

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EDUCATION

E001 KIDS PAINT Paint package designed for kids
E002 COLOUR KIT Colour book for kids
E003 TREASURE SEARCH Find the hidden treasure
E004 LEARN & PLAY1(not A1200) Maths & games
E005 LEARN & PLAY II for kids (order together)
E006 SPANISH TRANSLATOR (English to Spanish)
E008 MR MEN (A500 only) Story adventure
E009 ASTRONOMY tutorial on solar, star system
E010 SIMON & SPACE MATHS Maths & Simon Games
E011 EDUCATION PACK 1(5 disks) Lots of education programs range from Maths to games. We recomend you buy this collection
E019 DINOSAURS Explains what is a dinosaur
E021 STORY LAND II Interact puzzle game with 4 worlds to visit & solve (buy it...recomended)
E022 LANGUAGE TUTOR 4 languages
E023 TALKING COLOURING BOOK Very good Art/Paint package that talks
E024 EASY SPELL II Improve on their spelling.
E026 WORDS Canm help you solve crosswords
E027 OSWALD Large catoon game kids will love
E31 IQ TEST + IQ GAMES great to test your IQ
E33 +KEYCLICK II Good typing tutor
E35 CHESS HELPER chess tutor program
E38 AMIGA TUTORIAL explains about AMIGA
E39 COMPUTER CARE
E40 GUIDE TO LOWER BACK PAIN Tutorial on the spine and how to avoid back pain
E42 +FRACTION & SYLQUEST 2 good maths programs
E44 STEAM ENGINE V2 Cut away animation of steam engine
E45 PETROL ENGINE Cut away animation of petrol engine
E46 GAS TURBINE ENGINE Cut away animation of gas turbine engine
E54 DEMOLITION MISSION Simple game for kids destroy buildings
E57 APPLE CATCHER Good graphics easy to play
E58 CROSS MAZE & CRYPTOKING
E59 VERB QUIZ Testing you and your child on the word and it related
E61 KING JAMES BIBLE (4 disks) A complete bible on 4 disks fully menu driven
E70 +MATHS DRILLS Help kids improve maths etc.
E071 +ERROR INFO gives you info on error guru messages
E074 +AMIGA BEGINNER GUIDE
E075 +WORLD WAR 2 2nd world war with maps/pics
E076 SCIENCE (4 disks) Excellent mix of physics, chemistry and science programs, recommended
E080 KID PRIX New paint package especially for kids
E081 ASTRONOMY Plot sun location, find star, solar position etc.
E090 KID D.T.P. Easy desktop publishing for kids
E092 SING ALONG RHYMES Jack & Jill very good
E094 HIGHWAY CODE TUTOR - QUESTION 7 ANSWER Teach you all the highway code signs
E096 READ AND LEARN with 3 little piggy story
E097 BACK TO SCHOOL 1,2, & 3 (3 disks) lots of games and educational programs for kids. Reccomended
E100 LITTLE TRAVELLER info on world wide places
E101 WORLD GEOGRAPHY map of the world & Britain
E103 DISCOVERY OF THE ATOM (2 disks) tutorial
E104 DESKTOP GUIDE TO MUSIC (3 disks) Massive tutorial guide to making music. Recommended
E107 TRUMPTY FIREWORK ALPHABET Very entertaining way to teach your child the alphabet. Fully animated
E109 MR MEN OLYMPIC (2 disks) Large Mr men character as stars even for this Olympics.Recommended
E110 CULT TV DATABSE (2 disks) info on early films
E115 ELECTRONIC WORLDS (3 disks) new K.James bibles
E116 HOW THE EARTH BEGAN info on the big bang
E117 PAINT BOX DEMO kid's paint program
E118 WORRKBENCH 2 Tutorial (user guide)
E119 DINO WAR Quiz on dinosaurs
E120 JUNIOR MATHS with very colourful graphics
E121 PICTURE PUZZLE Fancy a game of JIGSAW
E122 WORD FACTORY Brilliant, spelling type games
E123 KID DISK 1 best education program includes COLOUR THE ALPHABET 2, Paint etc.
E124 KID DISK 2 more high quality education
E125 JURASSIC PARK must for all dinosaur fans
E126 CHILDREN'S SONGS 2 - 5 excellent children's songs
E127 MING SHU (A500 only) Chinese Astrology
E128 ASTRO 22 PRO V3 latest astrology program
E129 KID DISK 3 (DTP) (follow up Kid Disk 1& 2)
E130 FRENCH VERB TESTER - helps you with French
E131 CULT TV DATABASE II (2 DISKS)
E132 PHOTOGRAPHY - the Darkroom Brilliant demonstration, how to develop (photo) film. Recommended
More education software in catalogue disk

18+DEMOS

0001 +Showering Girl 5 (A)
0003 +Bodytalk (2) (A)
0006 +Viz Calender 1990 (A)
0007 +NIGHTBREED (A)
0009 +Maria Whitaker (A)
0024 +Sabrina Special (A)
0025 +Dic Filkinger
0026 +Madonna Early Days
0028 +Kathy Lloyd
0030 +Mega Maid* (A)
0031 +Calender Girls (A)
0032 +Mayfair (A)
0033 +Utopia (4)
0045 +Girl Of Sport (A)
0049 +Page 3 Girl (A)
0070 +Gon Gon Girls
0071 +Tina Small (A)

100 DEMOS PACK

NEW just release brand new collection of 100 demo must for all DEMO lover destin to be No1 seller ONLY £8.00 SUITABLE FOR ANY AMIGA

DEMOS

D011 MUTITASKING demo of what is multi tasking
D016 DEAD DANCE THRASH good dance music based demo
D050 PINK FLOYD THE WALL (6 disks) Massive music demo lasts a long time (requires 2 disk drives)
D091 STAR WARS DEMO (2 disks and A500 only) Super Star Wars demo lots of X-wing animation
D107 ODDYSEE (5 disks & A500 only) Incredible 40 min space epic journey movies. Recommended
D118 STAR TREK MEGA DEMO A (A500,A1200)
D120 1911 VOYAGE Brilliant demo lot of fill vector
D152 THE ELECTRIC TOUCH Multi scroll vector touch
D174 ACID MIX 5 brilliant acid tracks
D261 FRONTIER Incredible Elite 2 demo animation
D251 MANGA WORLD Briliant Manga slideshow
D252 JAPANESE LANG Learn how to speak Japanese
D253 SUNTEAM GG ESWAT Eswat games
D254 AKIRA DEMO Akira manga demo
D255 TROOP JUGERNORT 1 Story & games
D256 MANGA WORLD 2 More manga slide show
D257 SUNTEAM QUIZ Quiz
D258 MAKE IT SO EASY Guess

A1200 ONLY

AGA001 EXTENSION DEMO Stunning demo with fast landscape anim and a rotating city, received 90% in CU
AGA002 FRACTAL GENERATOR (NEW) Create stunning fractals in 256 colour
AGA003 WORBENCH HACK Loads of hack/toy/blanker etc.
AGA006 NEW SUPERKILLER Know & kill 316 types of virus, well recommended
AGA007 MIND WARP one of the very first demos for the A1200
AGA011 SLEEPLESS NIGHTS 3
AGA012 PLANET GROOVE release by Team Hoi
AGA013 MOTOR INVADER 2 (2 disks) Very playable INVADER clone set. Recommended
AGA015 POINT OF SCALE Stunning vector demo came direct from France
AGA016 CHROMA Good demo
AGA017 WORLD OF MANGA AGA (4 disks) Load of cute Manga chic slideshow in stunning 256 colour
AGA021 MAGIC WORKBENCH Improve the look & add extra command to your workbench (HD required)
AGA023 U-CHESS the best chess program so far, stunning graphics but requires 4 megabytes
AGA024 WORKBENCH 3 SCREEN Great back drop for A1200 (not for beginners)
AGA41 GIF BEAUTIES VOL 1-10 Available ech disk auto-boot & contain loads of stunning pics of raunchy women. Note fully compatible with any Amiga
AGA062 BODY SHOP VOL 1-7 Available (2 disks each) See description above (A1200 only) & order with volume number (2 disks per volume)
AGA080 FIT CHECK VOL (1-5 Available 2 disks each) see description above (A1200 only)
AGA90 ASSASSIN FIX DISK 1 brilliant collection of degrade utilities for running non-compatible software, we recommend you get these 2 diks now
AGA91 ASSASSIN DISK 2 (new) latest contained more degrade utility (see above) Recommended
AGA94 RELOKIT V1.4 latest run A500 SOFTWARE
AGA97 A1200 UTIL - AGA TESTER SYSINFO etc.
AGA98 ACTION REPLAY V4 Complete ACTION REPLAY on disk
AGA99 MADFIGHTER 2 brilliant street fighter clones
AGA100 AGA BLITZ SCREEN BLANKER
AGA101 FAST GIFF 2 display GIFF pic in Workbench
AGA102 AGA DIAGNOSTIC - NEWsystem tester
AGA103 BLACK BOARD AGA decent image processor
AGA104 REND 24 Similar to above
AGA105 QUICK GRAB AGA - can grab AGA screen
AGA110 WORLD BEYOND 1 (3) stunning 250 COLOUR fantasy art, leaves Atari users breathless
AGA114 SMELL LIKE CHANEL NO 5 brilliant demo
AGA121 MAGIC FACTORY (1-5) STAR TREK stunning 256 colour raytrace startreks, brilliant
AGA133 AGA UTIL V1 AGA util compilation
AGA134 AGA UTIL V2 more AGA util compilation
AGA135 AGA UTIL V3 more of the above
AGA136 AGA UTIL V4 even more of above
AGA137 IMAGE PROCESSOR IFF picture processor
AGA138 MULTIBOOT - 4 various versions A500 EMU
AGA139 WB3 HARD DISK PREF & INSTALLER installing WB3/perfect the hard disk
AGA140 CROSS DOS PLUS V5.1 read/write PC files
SEE GAMES, UTIL, ETC. FOR MORE A1200 SOFTWARE

ANIMATION

A013 SPACE PROBE search for alien lifeform
A022 LUXO TEENAGES Incredible ray-traced animation
A072 LIFE'S A BITCH (18+) We all know life's a bitch
A179 THE LIVING WORLD SLIDESHOW
A187 PERILS OF THE DEEP (2 disks) Incredible slide show of very big sea creatures
A193 NEMISIS COMIC Animated comic set in space
A215 MADONNA 3 (3 disks) Madonna fans, get this, a must !
A231 ALIENS The best Alien slideshow & demo
A293 MANGA COMIC Cute, chic & robot slide
A302 CAT SLIDESHOW For all cat lovers
A336 FAST CAR (Not A1200) expensive car slide show

MUSIC

M001 BEASTY BOYS Good, We Want Some Pussy songs
M002 MICHAEL JAKSON Brilliant song of 'BAD'
M005 +100 C64 TUNES 100 C64 games music
M072 +MADONNA songs from the hanky panky album
M076 POPEYE meet the Beast Boy, very good
M156 +CD PLAYER Simulate a CD player
M160 +I AM TOO SEXY (2 disks) full song
M194 JESUS ONE'S (2 disks) super music disk
M262 A-Z TUNES (4 disks) hundreds of C64 games music

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NEW TITL

AGA 150 ACTION REPLAY V5 - NEW UPDATE TO V4
X76 CINDY CRAWFORD - (2 Disks) the best glamour yet.
U782 CHEAT V3 - contained 1000+ game cheats and solutions
E150 INTERNET - FULL guide to internet & superhighway
A419 HAVE A LAUGH - 64 humours sea side post card
A420 TERMINATOR 2 ANIM - (3 Disks) anim from the movies
A423 APEX anim (2) - for films anim
U780 PRINTER MASTER plus - print banner, stationery, etc
U781 ACCOUNT MASTER - Brilliant account program
AGA 141 FARRARI ART 2(2D) - load of Farrari & ray trace
AGA 142 SUPER LEAGUE 3 - latest manager games
AGA 144 SPEAK & SPELL - educational software for kids
AGA145 BIG TOPS (18+ only) HHMMmm
AGA 146 KELOG LAND - brilliant platform games get a must
E148 CHESS & TUTOR - FULL teach you how to play chess
E142 KID DISK 5 & 6 - 2 disk full of brilliant games and education program with large anim & graphic 10/10
G680 SPACE-INVASION 2 - Fantastic Galaxian clone
G681 AUTOMOBILES - PD version of SKID MARK brilliant
G682 BANDIT MANIA - Brilliant fruit machine demo
M370 KYLIE MINOGUE (2D) - full song 'MADE IN HEAVEN'
X075 MADONA SEX (3D) 18+ only
X074 ADULT JOKE (18+ ONLY) HHMMmm

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PD UTILITIES

André Digard has more utilities tucked away than a rather large swiss army knife. This month it's ...

AMFM SAMPLES 19

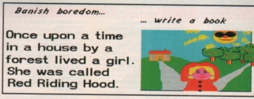
sound samples

You can normally count on these AMFM disks for some good synth samples. Volume 19 is no exception, and comes with 20 atmospheric sounds to choose from. Two of the sounds are included in four chord variations. Most of the sounds are twinkly pads or sustained synth choirs and strings. Sound quality is generally very high, although some are rather quiet. Highly recommended to all tuneful musicians.

Available from: Cynostic, Office 01, New Enterprise Centre, Little Heath Ind. Est., Old Church Road, Coventry CV6 7NB. Tel: 0203 6816 87. Price: £2.75 including P+P. 80%

KIDS DISKS 2 & 5

educational



Banish boredom...

... write a book

Once upon a time in a house by a forest lived a girl. She was called Red Riding Hood.

We reviewed *Kids Disk 1* in October's CU AMIGA and gave it a massive 95%. Here are two more disks from the same excellent series. *Kids Disk 2* holds a small selection of programs: *Beat*, *Maze* and *Shape*. *Beat* is a music creation program which lets kids put together their own cacophonous orchestrations. It comes with some instruments built-in, and is generally easy to use, but writing a tune with it can take some time. *Maze* is a kind of maths quiz. You have to guide a princess around the maze, opening doors by answering questions. There are various things to collect on the way, ghosts who will ask you questions, and a crown to be found. Good stuff. *Shape* is a kind of Tetris for children. Different shaped objects fall from the top of the screen, and must be fitted into their appropriate holes at the bottom.

KD5 has another three programs on it. In *Roboprogo* you must help a robot to build a bridge. *Alphasnap* is another *Tetris*-type game, this time based around the alphabet. Finally, *Takeaways* is for slightly older children which helps children to learn about both maths and money (and chicken vindaloo) in a really neat way. I can highly recommend all of the volumes in the *Kids Disk* range to anyone who likes a bit of fun with their education.

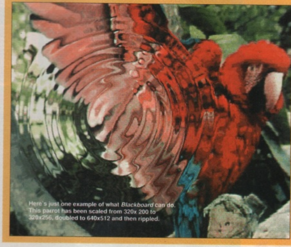
Available from: Duncan Moran, 24 First Avenue, Colwyn Bay, Clwyd LL28 4DQ. Price: £5.00 including P+P for all five disks. 85%

BLACKBOARD V3.0

image processor

Anyone interested in graphics will have undoubtedly heard about the Amiga's leading image processors, *Image FX* and *Art Department Professional* (*AD Pro*). If you haven't used an image processor before, you may be wondering what all the fuss is about. Well, here's you're chance to find out!

Blackboard is a licenceware image processor in the style of *AD Pro* and *Image FX*. It's no real competition for them, but it lets those of us who don't have the money for the heavyweights enjoy some of the benefits on the cheap. Who knows, you could just find yourself saving for one of the big boys afterwards. *Blackboard* incorporates many different effects, all of which are in the form of modules, which means that it can be easily upgraded in the future. The modules cover all kinds of useful tools, ranging from simple scaling, through to things such as colour quantisation. Amongst others there is the almost ubiquitous spiral, which twists the image, a ripple effect and a tool which can double the resolution of your picture without making it look blocky. As an example of what it can do, take a look at the picture below. It's been scaled from 320x200 to 320x256, doubled to 640x512, and then rippled.



Here's just one example of what *Blackboard* can do. This parrot has been scaled from 320x 200 to 320x256, doubled to 640x512 and then rippled.

The tools in *Blackboard* are wonderful. You'll be playing with them for days just to find out what it can do. Therein lies one of *Blackboard's* problems though. Rendering images takes ages. This is mainly because all of the processes are carried out in 24 bits. Unfortunately, it's rather unstable, and throws up plenty of recoverable alerts. The user interface isn't great, but at least it's all standard Workbench stuff. However, this poor user interface and earlier mentioned instability let the program down.

A hard drive is strongly recommended and lots of Chip RAM would be helpful.

Available from: F1 Licenceware, 31 Wellington Road, Exeter, Devon EX2 9DU. Tel: 0392 493580. Price: £5.99 including P+P. 89%

»

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UTILITIES

☐ U1 **GHOSTWRITER** Demomaker, easy to use
☐ U1A **GHOSTWRITER DATA** For use with U1
☐ U42 **DISK SALVAGE DIR-UTIL** Repairs disks
☐ U58 **ANTI FLICKER** Stop Screen flicker
☐ U59 **WINDOWS BENCH** (2 disks) Excellent for W.B. 1.3
☐ U60 **MESSY SID II** De-load Amiga to PC
☐ U91 **MCAD DEMO** Computer aided design
☐ U95 **ELECTROCAD DEMO** Latest circuit design
☐ U125 **CROSSDOS** Amiga to PC
☐ U183 **HACK PACK** (2 Disks) 72 Utils for code busters
☐ U190 **SID V2.0** Dir tool, excellent
☐ U230 **INSTALL** Install your disks without the CLI
☐ U282 **SUPER C DIR TOOLS** Fast use of C
☐ U318 **MULTIDOS** PC>Amiga
☐ U320 **CLI-UTILS** Very useful
☐ U323 **WINDOWS BENCH V2.0** (2 disks)
☐ U332 **ASSASSINS HANDY TOOLS V3.0**
☐ U346 **PROF DEMO CREATOR V1.1**
☐ U349 **SUPER POWER PACKERS**
☐ U392 **STD CODE FINDER U.K.**
☐ U399 **TOGGLE CLICK** A500/A1200 only-Stops drive click
☐ U404 **ENGINEERS KIT** Diagnostic tools
☐ U408 **TOOLS FANTASTICA**
☐ U412 **LYAPUNOVIA** Picture generator
☐ U413 **ARESTAURE** Mends deleted files
☐ U414 **FAST INTRO MAKER**
☐ U415 **P-COMPRESS** Packer
☐ U416 **S-TEXT** Text packer
☐ U423 **LYAPUNOV** Fractal generator
☐ U424 **ICON AUTHOR** Iff images for Icons
☐ U425 **AUTOSAVE** Save at intervals automatically
☐ U426 **EASY BENCH** (2 disks) WB2 and above
☐ U427 **MENU MASTER 3**
☐ U428 **PARNET** (2 disks) Link two Amigas
☐ U430 **XPK COMPRESSION UTILS**
☐ U431 **WB2 UTILS**
☐ U433 **AMOS PRINTER ROUTINE** For Amos progs
☐ U434 **V MORPH v 2B** Create great effects
☐ U435 **BANNER** Make your own
☐ U436 **HEAD CLEANER** For drives
☐ U437 **DISK SALV 2** Latest & greatest! WB2 & above
☐ U438 **CSH SHELL v 5.31** Easy to use
☐ U441 **DISK MASTER III**
☐ U443 **PP SHOW v 3.4a**
☐ U444 **HYPER** use with Amigaguide
☐ U445 **AMIGAGUIDE (2 disks)** Hypertext utility
☐ U446 **AB v1.35** for archivers
☐ U447 **ADOC v3.01** help utility
☐ U448 **DISKTEST v2.03** checks integrity
☐ U449 **SOFTPROJECT** write protection
☐ U450 **SUPERDARK v1.2** screen blanker
☐ U451 **APRF v1.4** print utility
☐ U452 **GUARC v1.1** for CLI based archivers
☐ U453 **LANDBUILDER v3.2** Fractal land gen.
☐ U454 **PC>AMIGA** file utility
☐ U455 **TRONICAD** electronic circuit design
☐ U456 **X-BENCH** (2 disks) replacement W.B.
☐ U457 **ROT-3D** drawing package
☐ U458 **SNOOPDOS** get progs working
☐ U459 **T.S. MORPH**
☐ U460 **AREXX GUIDE**
☐ U461 **DEANS CRUNCHERS**
☐ U462 **ASSASSINS FIX DISK 1**
☐ U463 **ASSASSINS FIX DISK 2**
☐ U464 **AF'S REPLACEMENT WB** (3 disks) not A1200
☐ U465 **T.A.C.K.** Anim. Const. Kit
☐ U466 **T.A.C.K.** Music Modules
☐ U467 **T.A.C.K.** Background Pics
☐ U468 **ZIPBENCH** (2 disks) not 1200
☐ U469 **SUPERVIEWER V2.4** Slideshow util.
☐ U471 **MINIMORPH**
☐ U474 **SPICE 3** Circuit Analysis
☐ U475 **SHUT UP v1.2** Stop Drive Click WB 2.04/3
☐ U476 **RUSH DIRECTORY** Utility
☐ U477 **SOLDERING DISK** Learn how
☐ U478 **ASSASSINS WORKBENCH UTILS** WB 2/3
☐ U479 **TWIN EXPRESS** (2 disks) Link Amiga to PC
☐ U480 **CATALOGUE 3** Good Cat. util.
☐ U481 **POLYED** Polygon editor 3D shapes
☐ U482 **MANDELPLOT** Mandelbrot generator
☐ U483 **ICONSPLUS 1** WB2+ – W.B. Icons
☐ U484 **ICONSPLUS 2** WB2+ – Good utils
☐ U485 **ICONSPLUS 3** WB2+ – More utils
☐ U486 **MAGNUM v1.7** – Disk Mag creator
☐ U487 **RUSH WB2+** Directory util
☐ U488 **DMS DEVICE MASHER** crunches all files

BUSINESS

☐ BU86 **JOURNAL** Accounts, simple to use
☐ BU96 **AMIBASE V3.76** Database
☐ BU104 **BANK'N** Cheque account
☐ BU105 **AMICASH BANKIN** Accounts
☐ BU106 **Q BASE & SPREADSHEET** Addresses
☐ BU108 **VISICALC SPREADSHEET** Like Lotus 123
☐ BU111 **ANALYTICALC** * (2) Spread-sheet, powerful
☐ BU112 **FLEXIBASE V2.0** DBase
☐ BU124 **BUSINESS CARD MAKER**
☐ BU128 **SCALC & WORDWRIGHT** Spread/w. proc.
☐ BU129 **WORDWRIGHT & SPELL** W/proc and check
☐ BU131 **U-EDIT W/PROCESSOR**
☐ BU132 **TEXTPLUS W/PROCESSOR**
☐ BU133 **600 BUSINESS LETTERS** Just load 'em in
☐ BU135 **AMIGAFOX DTP V1.1** Puts pics with text
☐ BU136 **AMIGASPELL** Spellchecker
☐ BU137 **WORD FRENZY-DBASE & SPELL**
☐ BU138 **AMIGAFOX V1.0** W/Processor
☐ BU145 **TEXT ENGINE V4.1** W/Processor latest
☐ BU152 **AMIBASE PROF II V1.2** D/Base
☐ BU158 **MICROGNUEMACS** Text editor
☐ BU162 **A-Z SPELL** Spellchecker
☐ BU171 **ILLINOIS LABEL PRINTING**
☐ BU172 **INVOICE PRINTER**
☐ BU186 **CLERK V4.0** Accounts – latest
☐ BU204 **MAIL-O-DEX** Mail Database
☐ BU212 **LABEL DESIGNER**
☐ BU231 **SPELLCHECK V1.2**
☐ BU248 **CHECKBOOK ACCOUNTANT** Very good
☐ BU251 **BUDGET V1.3-4** Finances
☐ BU254 **SUPERSPELL** Global spell check
☐ BU301 **FORMS UNLIMITED** Loads
☐ BU304 **P SUITE V1.4**
☐ BU314 **P WRITER** Text editor
☐ BU324 **WORDPOWER** Thesaurus
☐ BU326 **ADDRESS BOOK**
☐ BU327 **BOILER PLATE** W/Processor & Bus. letters
☐ BU328 **LITTLE OFFICE** WP, S/S, D/B + Graphix
☐ BU329 **MORTGAGES ANALYSER**
☐ BU330 **PRINT A CARD** Design
☐ BU332 **AMIGA MAIL** Address lists
☐ BU334 **PC FORM LETTERS**
☐ BU335 **PAY ADVICE ANALYSER v3.0** P.A.Y.E., N.I. etc
☐ BU336 **MONEY PROG** * Good accounts
☐ BU337 **CHEQUE BOOK** Accounts prog
☐ BU339 **D LAB** Disk labeller
☐ BU340 **LOGINFO** Phone bills for modem
☐ BU341 **EASYCALC** New spreadsheet
☐ BU181 **B BASE III** Database
☐ BU319 **ORDER v1.7** Database
☐ BU342 **LS LABEL** Label print
☐ BU343 **DATABASE WIZARD**
☐ BU398 **ADDRESS PRINT v3.0**
☐ BU399 **TEXTPLUS v5.01** Hard Drive only - latest
☐ BU400 **ENVPRINT** Address envelopes
☐ BU401 **P.E. PRINT UTILS** Labelling progs
☐ BU402 **TRUE ED** Excellent editor
☐ BU403 **FTX ACCOUNTS**
☐ BU404 **ACCOUNT MASTER 2.12**
☐ BU405 **TURBO TEXT v1.1** very impressive w.proce
☐ BU406 **ADM v1.01** Flexible address d/base
☐ BU407 **A-BASE** Great database
☐ BU408 **GOLD ED** (2 disks) Fully functional - fantas
☐ BU409 **FH SPREAD** - New spreadsheet
☐ BU410 **BUDBASE v1.2** Easy to use d/base
☐ BU411 **EASYCALC PLUS** Good spreadsheet WB2+
☐ BU412 **AMIGABASE** Excellent database
☐ BU413 **BANK v1.0** Accounts programme
☐ BU414 **INVENTORY II** Stock control & wages
☐ BU415 **AMIGA DIARY v1.13**
☐ BU416 **PAYROL**
☐ BU417 **EASYPRINT** (1.3 only)
☐ BU418 **PERSONAL ADDRESS BOOK** (Password)
☐ BU419 **PERSONAL JOURNAL** (Secret Diary)
☐ BU420 **WOMBLE VOL 1** Database etc.
☐ BU421 **ON FORM v1.1** Invoice/Order printer
☐ BU422 **EDWORD PROFESSIONAL v4.0** Text editor

COMMUNICATIONS

☐ C 25 **COMMSOFT** Needs C26
☐ C 26 **COMMSPANION** Needs C25
☐ C 62 **AZ-COMM** Modem programme
☐ C222 **JR COMM** v1.02 For modems
☐ C249 **TERM** II v1.1 Comms prog WB2/3
☐ C303 **OPTI COMMS** Inc.N Comm 2
☐ C347 **SATELLITE TRACKER**
☐ C357 to C382 **AMATEUR RADIO 1 - 25** (25 disks)
☐ C383 **N COMM** v3.0 Latest
☐ C384 **BBBBS** (3 disks) Bulletin board system
☐ C386 **SPOT** Fidonet util
☐ C387 **TERMINUS** JR Comm 2
☐ C388 **SERNET/PARNET** install for CD32 Amiga

EMULATORS

☐ EM 87 **SPECCY + 40 GAMES** 1.3 only
☐ EM141 **IBeM** PC emulator
☐ EM143 **ST EMULATOR** 1.3 only
☐ EM149 **C64 GAMES DISK 1** use with
☐ EM150 **C64 GAMES DISK 2** emulator
☐ EM215 **A64 EMULATOR v2.0*** (2 disks)
☐ EM306 **MS-DOS PROGS FOR PC TASK** (8 Disks)
☐ EM324 **KICKSTART 2** Upgrade WB1.3
☐ EM397 **NUMPAD** Numeric keypad
☐ EM400 **KICK 1.4** (Wb 2 & 3 only) Degrades to Kickstart 1.3
☐ EM412 **FAKEMEM** Degrades to 1.3/512k
☐ EM413 **KILL AGA v2** Turn off AGA chipset
☐ EM414 **KICKSTART 3** Upgrade WB2.
☐ EM415 **PC TASK v2.03**
☐ EM416 **SPECCY EMULATOR v2.0** All Amigas
☐ EM417 **S KICK** Switch WB 3.0 to 1.3
☐ EM418 **Z KICK** A600 emulator
☐ EM419 **DATASETTE 64** Transfer C64 prog
☐ EM421 **SPECCY GAMES** (12 disks) use with EM416

PRINTER DRIVERS

☐ PD177 **PRINTER DRIVERS** (2 Disks)
☐ PD200 **PRINTER DRIVER GENERATOR**
☐ PD275 **JOY OF PRINTING** Drivers + fonts
☐ PD281 **PRINT STUDIO** 41 drivers – good
☐ PD327 **CANON PRINTER DRIVERS**
☐ PD328 **PRINTER DRIVERS UPDATE 3**
☐ PD335 **PRINTER DRIVERS** Canon BJ10e
☐ PD358 **CANON DRIVERS** BJ130 etc
☐ PD407 **DRIVERS** Star/Epson/ Pan/HP
☐ PD408 **HP550C Printer Driver**
☐ PD409 **HP PRINTER DRIVERS**
☐ PD410 **PROF PRINTER DRIVERS**
☐ PD411 **STAR PRINTER DRIVERS**
☐ PD412 **CANON STUDIO**
☐ PD413 **STAR STUDIO**
☐ PD414 **PANSONIC STUDIO**
☐ PD415 **PRINTER DRIVERS** - 112 in all!
☐ PD416 **PAGESTREAM PRINTER DRIVERS**
☐ PD417 **CITIZEN PRINTER MANAGER**
☐ PD418 **SID'S 147 PRINTER DRIVERS** (2 Disks)

HOBBIES

☐ H 88 **CROSSWORD DESIGNER**
☐ H148 **A-GENE** Family history
☐ H214 **FOOTBALL LEAGUE EDITOR**
☐ H250 **DARTS LEAGUE D/BASE**
☐ H302 **LAST WILL & TESTAMENT**
☐ H305 **ASTRO 22 v 3.5** Latest astrology
☐ H307 **FAMILY HISTORY D/BASE**
☐ H310 **TEN PIN BOWLING D/BASE**
☐ H333 **AMIGA PUNT** Horse racing
☐ H336 **PERM CHECK v1.0** Pools predicter
☐ H342 **STITCHERY** Cross stitch work
☐ H359 **RACE RATER** Horse predicter
☐ H360 **QUESTION ATORT** Quizmaker
☐ H361 **NEW BIORYTHMS** Excellent prog.
☐ H362 **WINE MAKERS D/BASE**
☐ H363 **CYCLING M** Useful
☐ H364 **DARTS MACHINE** Score recorder
☐ H365 **AMYGEN** Family history
☐ H366 **POOLS WIZARD** Demo
☐ H367 **MING SHU** Chinese Astrology
☐ H368 **ASTRONOMY 2** Data & graphics
☐ H369 **AMERICAN FOOTBALL** (2 Disks) Rules
☐ H370 **LANDSCAPE GARDENING**
☐ H371 **GENEOLOGIST** WB2 and above
☐ H372 **TOP OF THE LEAGUE** Football Manager
☐ H373 **COURSE FORM** Horse racing
☐ H374 **FORECASTER** Horse race predictor
☐ H375 **STARVIEW** Astronomers
☐ H376 **CODE MUNGUS v5.7** Highway Code
☐ H377 **FOOTBALL FORECAST DEMO**
☐ H378 **BON APPETITE** Recipe database
☐ H379 **POOLS TOOLS 2** Pools progs.
☐ H380 **SEE THE AURA** (2 disks) human aura
☐ H381 **PHOTOGRAPHY** About the Dark Room
☐ H382 **DSOLVE CROSSWORD** Solve them
☐ H383 **PROFESSIONAL BINGO**
☐ H384 **WORD UTILITIES** Word puzzle solver
☐ H385 **KITE SIMULATOR** Fly your kite!
☐ H386 **POOLS WIZARD JUNIOR V1.0**
☐ H387 **SPIDERSOFT UTILS** Garden Designer
☐ H388 **GENIE** Family History
☐ H389 **STOCK ANALYST** Stocks & Shares
☐ H390 **WHOM 3** Part 2
☐ H391 **WHOM 3** Part 3
☐ H392 **TAROT** (2 disks) Birthsigns
☐ H393 **KNIT** Create patterns
☐ H394 **GOLF GURU V1.2** Keep golf scores
☐ H395 **FOOTY V1.4** Football League Editor
☐ H396 **DIVIDEND WINNER** Football
☐ H397 **RED DWARF TRIVIA**
☐ H398 **SCION** - family history d/base
☐ H399 **SHAREMAN** - stock market manager
☐ H400 **M.O.R.C. v2** (2 disks) Rune caster – New
☐ H401 **THE MYSTERIES OF RUNES** all the signs
☐ H402 **DVLI** Personality profiler
☐ H403 **SUPER LEAGUE v2.4** - great
☐ H404 **LUCIFER'S WICKED GRIMOIRE** (3 disks) - years +, witchcraft, spells, herbal potions For interest purposes only!!
☐ H405 **LUCIFER'S OCCULT MUSIC** (2 disks) - Cyb punk + heavy metal
☐ H406 **FOOTBALL ICONS** - Flags, motifs etc.

HARD DRIVE UTILS

☐ HD102 **HARD DISK UTILS** Excellent collection
☐ HD223 **DELTRAX HD UTILS 1** Fileminder, HDClick
☐ HD395 **RE-ORG V2.3** Optimiser
☐ HD397 **HD CLICK** v2.53
☐ HD398 **MR BACKUP** v1.14B
☐ HD399 **BACKUP**
☐ HD400 **C DISK** Optimiser
☐ HD401 **HD STACKER** Double your space

PROGRAMMING

☐ PR 47 **C LANGUAGE MANUAL** (3 Disks)
☐ PR 49 **C LANGUAGE COMPILER**
☐ PR 72 **PASCAL LANG PROG**
☐ PR 94 **POWER LOGO v1.4** Lisp & Logo
☐ PR110 **PDC** (3 Disks) Programmers aid
☐ PR118 **BC-FORTRAN**
☐ PR166 **AMIGA CODERS CLUB** (6 Disks)
☐ PR225 **CURSOR COMPILER** Basic language
☐ PR239 **DME V1.45** Programmers Text Editor
☐ PR243 **DICE v2.5** (2 Disks) C Environment
☐ PR244 **PCQ v1.2a** (3 Disks) Pascal compiler
☐ PR326 **SOZOBAN C DISK** AZ Text link compiler
☐ PR355 **ASM ONE** Assembly package
☐ PR357 **EZASM** Assemblers
☐ PR358 **C MANUAL** (12 Disks) The best yet!
☐ PR359 **NORTH 'C'** v1.3 (2 Disks)
☐ PR361 **ATTIC & BLIT** Useful for 'C' progs.
☐ PR362 **AMIGA E** v2.1 Better than C
☐ PR363 **AZAPP v2.04** binary editor
☐ PR364 **INSTALLER** for software developers
☐ PR365 **MPE v1.6** M2Amiga companion
☐ PR366 **MODULA-2** language
☐ PR367 **GNU++C COMPILER** (3 Disks)
☐ PR368 **PCQ SHELL** Pascal Compiler
☐ PR369 **'C' LANGUAGE MANUAL v2.0** (4 disks)
☐ PR370 **C++ 2LATEX** Make Latex files from C++ or C
☐ PR371 **AMI LOGO v1.4** Logo

GRAPHICS

☐ GU163 **3D FONTS** (3 Disks)
☐ GU227 **REAL 3D FONTS**
☐ GU246 **CLIP-ART PORTFOLIO** (15 disks)
☐ GU261 **LARGE FONTS DISK**
☐ GU265 **SCANNES CLIP-ART** (3 Disks)
☐ GU269 **DYNAMITE FONTS**
☐ GU270 **FONTS & SURFACES**
☐ GU272 **CLIP-ART COLL** (8 Disks)
☐ GU273 **CLIP-ART VOL 1** (7 Disks)
☐ GU279 **DYNAMITE FONTS 2**
☐ GU280 **HACK FONTS 1** (2 Disks)
☐ GU283 **COSMOPOLITAN FONTS 1**
☐ GU284 **COSMOPOLITAN FONTS 2**
☐ GU285 **COSMOPOLITAN FONTS 3**
☐ GU286 **COSMOPOLITAN FONTS 4**
☐ GU289 **SONIC DEV CONVERTERS PACK**
☐ GU290 **BEATRIX POTTER CLIP-ART**
☐ GU311 **DISK MANAGER + FONTS** (Plus only)
☐ GU312 **SHADOW MAKER**
☐ GU313 **MOVIE MAKER**
☐ GU314 **ANIMATIONS BRIDGE V1.0**
☐ GU315 **PLOTTING & GRAPHICS**
☐ GU316 **DOCK ICONS**
☐ GU317 **ASSASSINS MULTI-VISION V1.0**
☐ GU318 **THE SNOWMAN CLIP-ART**
☐ GU319 **PAGESTREAM 2.1 FONTS** (5 disks)
☐ GU320 **WALT DISNEY CLIP-ART**
☐ GU321 **MAGNETIC PAGES V1.3**
☐ GU322 **COMPUTEREYES FONTS PACK 1**
☐ GU323 **COMPUTEREYES FONTS PACK 2**
☐ GU324 **COLOURED ICONS**
☐ GU325 **GRAPHICS RIPPER**
☐ GU362 **DIRECT ACTION** Anim creator
☐ GU363 **M.A.K.** Mandelbrot adv kit
☐ GU402 **FREE PAINT** Copy of DPaint
☐ GU403 **VIEWTEC v1.02** AGA graphics display
☐ GU404 **FONTS DISK 1** Large & small
☐ GU405 **DIGI FONTS** Good variety
☐ GU406 **COLOUR FONTS 1** Modern, Olde, Pica
☐ GU407 **COLOUR FONTS 2** Marble, Rocks, Grids
☐ GU408 **COLOUR FONTS 3** Dimond, Eye, Sun
☐ GU409 **COLOUR FONTS 4** Digi/Font brushes
☐ GU410 **COLOUR FONTS 5** Cinnam 8, 16 etc
☐ GU411 **COLOUR CLIP-ART** Hi/Med/Low for DTP
☐ GU412 **COLOUR CLIP-ART** Animals
☐ GU413 **CLIP-ART** Animals B&W IFF
☐ GU414 **CONTACH CLIPART 1** Cartoon, Zodiac
☐ GU415 **CONTACH CLIPART 2** Buildings, Xmas
☐ GU416 **CONTACH CLIPART 3** Signs, Teddys, Work
☐ GU417 **GRAPHICS TOOLS 2**
☐ GU418 **RAYSHADE** (3 Disks)
☐ GU419 **PRO PAGE TEMPLATES**
☐ GU420 **PRO PAGE HELP**
☐ GU421 **DPAINT TUTOR** Learn to use it
☐ GU422 **SPECTRA PAINT**
☐ GU423 **THE DESIGNER** Arcade backgrounds
☐ GU424 **RJ UTILS** Perfect Paint, Image W/Shop
☐ GU425 **FONT FARM 3**
☐ GU426 **FONT FARM 1**
☐ GU427 **FONT FARM 2**
☐ GU428 **VIEW 3.2** Anim Player
☐ GU429 **HAM LAB PRO v2.08** Picture Converter
☐ GU430 **ICONS GALORE**
☐ GU431 **STILL STORE**
☐ GU460 **QUICK GRAB** AGA
☐ GU462 **POST** Postscript interpreter
☐ GU463 **POST SCRIPT FONTS 1**
☐ GU464 **POST SCRIPT FONTS 2**
☐ GU465 **POST SCRIPT FONTS 3**
☐ GU466 **GELIGNITE FONTS 4**
☐ GU467 **ULTRAPAINT**
☐ GU468 **ARTISTIKS** Art package
☐ GU469 **BLUE ROSE FONTS 1**
☐ GU470 **BLUE ROSE FONTS 2**
☐ GU471 **IMAGINE OBJECTS & JPEG TEXTURES** (6 Disks)
☐ GU472 **SCALA BACKGROUNDS** (2 Disks) Hi-Res
☐ GU473 **RUSSIAN FONTS**
☐ GU474 **COMPUGRAPHIC FONTS** (7 disks)
☐ GU475 **PICTURE PACKER** - for compressing files WB3
☐ GU476 **BLUE ROSE FONTS 3** - WB2+
☐ GU477 **CINNAMON FONTS** (2 Disks) coloured fonts WB2+
☐ GU478 **FONT FARM 5-8** (4 Disks)
☐ GU479 **STAR TREK DESIGN FILE** -ship layouts etc

MUSIC UTILITIES

☐ MU2 **MODULES ONE**
☐ MU3 **MODULES TWO**
☐ MU4 **MODULES THREE**
☐ MU5 **MODULES FOUR**
☐ MU6 **MODULES FIVE**
☐ MU7 **MODULES SIX**
☐ MU10 - MU47 **ST SAMPLES & INSTRUMENTS** (38 Disks) or buy singly
☐ MU193 **OCTAMED v1.0b FF579** Music editor
☐ MU256 **MULTI-PLAYER V1.11A** Music
☐ MU317 **DENNIS SAMPLES DISK 2** Madonna etc
☐ MU318 **DENNIS SAMPLES DISK 3** Baby cough etc
☐ MU319 **DENNIS SAMPLES DISK 4** Telephone etc
☐ MU321 **DENNIS SAMPLES DISK 6** Star Trek etc
☐ MU322 **DENNIS SAMPLES DISK 7** Heavy monster etc
☐ MU323 **ASSASSINS AUDIO MAGIC VOL 1.1** Lots
☐ MU324 **ASSASSINS AUDIO MAGIC VOL 2** Trackers
☐ MU325 **SOUND APPLICATIONS A & B** (2 Disks)
☐ MU326 **MEGA MON v 3.20**
☐ MU327 **SAMPLE MAKER**
☐ MU328 **CASIO CZ-101**
☐ MU329 **DX 100**
☐ MU330 **PENDLE EUROPA**
☐ MU332 **INSTRUMENTS & SAMPLES**
☐ MU333 **PROTRACKER v2.2**
☐ MU338 **ASI AUDIO MAGIC Vol 4** Inc Pro Tracker v3
☐ MU339 **OCTAMED V2.0** 8 channel MED sequencer
☐ MU340 **CDTV PLAYER** Simplifies audio CD's
☐ MU341 **SUPERSOUND v2.1** Sound sampling
☐ MU342 **SOUND** Sample player
☐ MU343 **GUIDE TO ELECTRONIC MUSIC** (3 disks)
☐ MU344 **TAB MASTER** Music to guitar translator
☐ MU345 **POWERCUTS** Good sound effect samples
☐ MU346 **BEATS** (5 disks) Drum Samples
☐ MU347 **VOCALS** (5 disks) Super Samples
☐ MU348 **DRUM KIT SAMPLES** (3 disks) High q
☐ MU349 **KORG SAMPLES** Keyboard Sounds (3
☐ MU350 **MUSIC MODULES** (5 disks) Large mod
☐ MU351 **PURE SAMPLES** (3 disks)
☐ MU352 **METAL MODULES** (5 disks) Heavy Me
☐ MU353 **CHIPMANS SAMPLE DISK** 1-70 Samp
☐ MU354 **SAMPLE FACTORY** Sound effects
☐ MU355 **DELITRACKER** Sound player
☐ MU356 **POWER PLAYER v3.9** module player
☐ MU357 **IFF BREAKBEATS 1**
☐ MU358 **TECHNO MODULES 1-5** (5 disks)
☐ MU359 **OCTAROCK 3D** Rock + Grafix
☐ MU360 **OCTASTUFF** For Octamed v3 &4
☐ MU361 **GUITAR TUNER**
☐ MU362 **MEGA MONITOR** - ripper
☐ MU363 **OCTAMED TUTOR** (Not 1.3)
☐ MU364 **FLUTE CONCERTOS** WB2+
☐ MU365 **HORN CONCERTOS** (2 disks) WB2+
☐ MU366 **CHURCH MUSIC**
☐ MU367 **MUG DRUMKIT SAMPLES** (2 disks)
☐ MU368 **MUG BASS SAMPLES**
☐ MU369 **SAMPLES UNLIMITED 1** Good quality
☐ MU370 **NO SAMPLER UTILS** rippes, modules
☐ MU371 **XBEAT SEQUENCER** Mega!.
☐ MU372 **TROOPER MODS** 10+ modules for Octa
☐ MU373 **MT 32 MIDIFILES** for Roland.
☐ MU374 **12 DISKS CRAMMED WITH MIDIFILES** 100s.
☐ MU375 **AUDIO MAGIC 5** - new tracker progs.
☐ MU376 **AUDIO MAGIC 6** - FM Synth, Quaddra more.
☐ MU377 **SONIX ROCK** - music in Sonix!

EDUCATION

☐ E17 **SPELLCHECK** Learn foreign words
☐ E18 **TRANSLATOR** Spanish, French, Italian
☐ E23 **COLOUR THE ALPHABET** Very good
☐ E24 **DTP – FOR KIDS** Excellent
☐ E25 **ALGEBRA**
☐ E26 **MATHS WIZARD** Let the Wizard help
☐ E28 **BLACKBOARD MATHS**
☐ E30 **MR MEN STORIES** All your favourites - 1.3 only
☐ E31 **READY ROBOT** Full of games
☐ E32 **SCIENCE** 1,2,3,4 (4 Disks) Physics
☐ E203 **MULTIPLOT VALNE** (2 Disks) Data plotting prog
☐ E258 **MATHPLOT** Lin/log plotter
☐ E259 **PLOTTER v3.90** 2 dim math plots
☐ E311 **AMIGA TUTORIAL** Beginners will like this
☐ E322 **AGRAPH** Pie charts & others
☐ E334 **SACC TO SCHOOL** Kids puzzles, very good
☐ E335 **FIREWORK ALPHABET** Learning aid demo
☐ E336 **GRAMMAR** Correct your errors
☐ E337 **WORLD GEOGRAPHY** Very useful
☐ E338 **CHEMBALANCE** Chemical equations
☐ E339 **MATCH WITH HUMPTY**
☐ E340 **AMIGA WORLD** Info on every country on Earth
☐ E341 **SINGALONG NURSERY RHYMES**
☐ E342 **PICTURES & LETTERS**
☐ E344 **GREAT WOMEN OF OUR TIME**
☐ E345 **GAS TURBINE ENGINE** Anim.
☐ E346 **4 STROKE ENGINE** Anim.
☐ E347 **STEAM ENGINE** Anim.
☐ E348 **WW II HISTORY BOOK**
☐ E349 **A VISIT TO THE RED PLANET** Mars
☐ E350 **EVO** Evolution of man
☐ E351 **FRACTIONS**
☐ E352 **GCSE MATHS**
☐ E354 **COMMUNICATE** Sign, Braille, Morse, Flags
☐ E355 **LITTLE TRAVELLER** Tourist
☐ E356 **ASSASSINS BACK SKOOL** (3 disks)
☐ E357 **TWO STROKE PETROL ENGINE ANIM**
☐ E358 **JAPANESE** Learn the language
☐ E359 **KEYBOARD TRAINER v1.1** Typing tutor
☐ E360 **IRREGULAR VERBS** - Quiz
☐ E361 **HOW THE EARTH BEGAN**
☐ E362 **CHESS TUTOR**
☐ E363 **ELEMENTS**
☐ E364 **ANIMAL LAND** 1 Ages 4+
☐ E365 **FLAGS OF THE WORLD** (3 disks)
☐ E366 **MATHS ADVENTURE**
☐ E367 **MATH TALK** Sound + Speech – ages 9+
☐ E368 **KIDS DISK 1** – Learning
☐ E369 **KIDS DISK 2** – Learning
☐ E370 **CHILDRENS FAVOURITES** Good Fun
☐ E371 **THE ATOM** (2 disks) All you need
☐ E372 **JUNIOR MATHS**
☐ E373 **READ & LEARN** (2 disks)
☐ E374 **WORD FACTORY** Spelling
☐ E375 **KIDS DISK 3**
☐ E376 **KIDS DISK 4**
☐ E377 **OUR SOLAR SYSTEM**
☐ E378 **PLANETARIUM**
☐ E379 **KIDS DTP 2**
☐ E380 **KIDS DTP EXTRAS**
☐ E381 **TOME OF MYTHS** (2 disks) Study Mythology
☐ E382 **STATES OF EUROPE** Facts, maps & info
☐ E383 **FRENCH VERB TESTER**
☐ E384 **CALCULUS COMBAT** Maths agility
☐ E385 **TUTANKHAMUN** (2 disks) Slides of treasures
☐ E386 **STERLING ENGINE** Anim
☐ E387 **GRAPH PRO** Produce graphs
☐ E388 **NIGHT MATH ATTACK** excellent
☐ E389 **KIDS DISK 5** more fun progs
☐ E390 **KIDS DISK 6** from Duncan

VIRUS HELP

☐ VH 44 **MASTER VIRUS KILLERS v2.0**
☐ VH 93 **WARRIORS VIRUS KILLERS**
☐ VH216 **NEW SUPERKILLERS v2.5**
☐ VH235 **BOOTX V4.45** WB 1.3/2
☐ VH312 **LINK VIRUS DETECTOR**
☐ VH409 **EXTERMIN 8**
☐ VH411 **VIRUS Z v3.07**
☐ VH413 **ANTICICLOVIR v2** Link virus detector
☐ VH414 **VIRUS CHECKER v6.33**
☐ VH415 **SUPER VIRUS KILL** WB 2+
☐ VH416 **TRONIC VIRUS KILLERS**
☐ VH417 **VIRUS Z II** WB 2+
☐ VH418 **ASSASSINS VIRUS KILLERS**

COPIERS

☐ CP234 **FLASH COPY** Multi-tasking
☐ CP257 **FREE COPY v1.8** Removes protection
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☐ CP356 **SUPERDUPER v2.02**
☐ CP357 **BAD FORMAT** Run Bad disks
☐ CP358 **COPIERS UNLIMITED**
☐ CP360 **DISKMATE** V.Good (WB2.04+)
☐ CP361 **SUPERDUPER v3.0** WB2.04+

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COLOURED CLIPART

☐ CC1 **WORLD MAPS** (10 disks)
☐ CC2 **ACTORS** (2 disks) Famous faces
☐ CC3 **CATS** 16 pics
☐ CC4 **AIRCRAFT** (2 disks) 32 pics
☐ CC5 **DOGS** (8 disks) Assorted
☐ CC6 **BIRDS** (8 disks) All sorts
☐ CC7 **MONTAGE LANDSCAPES** (2 disks)
☐ CC8 **MONTAGE WILDLIFE**
☐ CC9 **REPTILES**

SUPERB QUALITY CLIPART

☐ GU326 **ART 1** (2 Disks) Weddings
☐ GU327 **ART 2** (2 Disks) Houses
☐ GU328 **ART 3** (3 Disks) Religious
☐ GU329 **ART 4** WWII Aircraft
☐ GU330 **ART 5** (2 Disks) Men
☐ GU331 **ART 6** (2 Disks) Women
☐ GU332 **ART 7** (2 Disks) Kids
☐ GU333 **ART 8** Business
☐ GU334 **ART 9** Office
☐ GU335 **ART 10** Students
☐ GU336 **ART 11** Sale
☐ GU337 **ART 12** (3 Disks) Christmas
☐ GU338 **ART 13** (3 Disks) Punch
☐ GU339 **ART 14** Animals
☐ GU340 **ART 15** Cats
☐ GU341 **ART 16** Silhouettes
☐ GU342 **ART 17** (2 Disks) Schools
☐ GU343 **ART 18** Babies
☐ GU344 **ART 19** (2 Disks) Sport
☐ GU345 **ART 20** Olympic
☐ GU346 **ART 21** (2 Disks) Medical
☐ GU347 **ART 22** Sea Life
☐ GU348 **ART 23** Decorative Months
☐ GU349 **ART 24** Whacky (funny)
☐ GU350 **ART 25** Holidays
☐ GU351 **ART 26** (2 Disks) Old banners
☐ GU352 **ART 27** Art Nouveau flowers
☐ GU353 **ART 28** Butterflies
☐ GU354 **ART 29** (2 Disks) Food & kitchen
☐ GU355 **ART 30** Colouring book (DPaint)
☐ GU356 **ART 31** Borders (DTP) (2 Disks)
☐ GU357 **ART 32** (2 Disks) MAC clipart
☐ GU358 **ART 33** Hornback (scenic)
☐ GU359 **ART 34** (2 Disks) Teddy Bears
☐ GU360 **ART 35** (2 Disks) Vanity Fair (fashion)
☐ GU361 **ART 36** Halloween (weird)
☐ GU364 **ART 37** Showtime (dancing etc)
☐ GU365 **ART 38** Vegetarian
☐ GU366 **ART 39** Floral (detailed)
☐ GU367 **ART 40** Myths & Zodiac
☐ GU432 **ART 51** Botanical art
☐ GU433 **ART 52** Family scenes (2 Disks)
☐ GU434 **ART 53** Golf Humour (2 Disks)
☐ GU435 **ART 54** Space & transport
☐ GU436 **ART 55** Soft scene 2-Rural pics
☐ GU437 **ART 56** Sports 3
☐ GU438 **ART 57** Navy
☐ GU439 **ART 58** Travel (2 Disks)
☐ GU440 **ART 59** Alphabet (2 Disks)
☐ GU441 **ART 60** Accents & Flashes – stars etc.
☐ GU442 **ART 61** Fish & aquatic pics
☐ GU443 **ART 62** Softscene 3
☐ GU444 **ART 63** Restaurant (3 disks)
☐ GU445 **ART 64** Mammals
☐ GU446 **ART 65** Anim & bird
☐ GU447 **ART 66** Mossburn animals
☐ GU448 **ART 67** Burchfield kids
☐ GU449 **ART 68** Beast & Myth (3 Disks)
☐ GU450 **ART 69** Transport (3 Disks)
☐ GU451 **ART 70** Trucks & trains
☐ GU452 **ART 71** Astrology (2 Disks)
☐ GU453 **ART 72** Aircraft (3 Disks)
☐ GU454 **ART 73** Birds – songbirds etc.
☐ GU455 **ART 74** Dogs
☐ GU456 **ART 75** Houses, castles & buildings
☐ GU457 **ART 76** Sports – Mac
☐ GU458 **ART 77** Horticulture (5 Disks)
☐ GU459 **ART 78** Military (10 Disks)

VIDEO WORK

☐ V 99 **CATALOGUE WORKSHOP 1**
☐ V100 **CATALOGUE WORKSHOP 2**
☐ V179 **VIDEO APPLICATION UTILS**
☐ V180 **VIDI FONTS 1**
☐ V220 **VIDEO GRAPHICS** (4 Disks)
☐ V236 **CHEMNIMATE** Reaction anims
☐ V345 **VIDEO WIPES**
☐ V401 **INSCRIPT** Video titler
☐ V402 **TELE TITLER 2** Hi-res – use with V408
☐ V403 **VIDEO EDITORS KIT**
☐ V404 **CAPTIONATOR** Superb video titler
☐ V405 **HARLEQUIN VIDEO ART 1**
☐ V406 **HARLEQUIN VIDEO FONTS 1**
☐ V407 **HARLEQUIN VIDEO FONTS 2**
☐ V408 **TELESCROLL 1** Video titler
☐ V409 **TELETITLER 3** Lo-res – use with V40
☐ V410 **DESKTOP VIDEO** Add scrolling titles
☐ V411 **VIDEO WORKSHOP** Borders & Fonts
☐ V412 **ASSASSINS VIDEO TITLERS**
☐ V413 **WEDDINGS DTV** (2 Disks) Brushes, Pics, A
☐ V414 **VIDEO TRACKER AGA**
☐ V415 **VIDEO TRACKER DATA**
☐ V416 **TELE SCROLLER**
☐ V417 **TELE TITLER 2**
☐ V418 **TELE TITLER 2** low res.

A1200

☐ AU12 **JPEG AGA IMAGES** (9 disks) Superb!
☐ AU13 **BAD BOYZ AGA SLIDES** (10 disks) Fab!
☐ AU14 **SLEEPLESS NIGHTS** – 3 utilities
☐ AU15 **A1200 UTILITIES** – Gif & PCX datatypes etc
☐ AU16 **A1200 WB HACKS**
☐ AU17 **ANDY'S WB3 UT'LS** Brill! Fakemem, AGAtest
☐ AU18 **24 BIT UTILS** – 3 conversions progs
☐ AU19 **WINBLEND** Fractal generator
☐ AU20 **JPEG UTILS** Read 24 convertor pics
☐ AU21 **HD PREP** preps hard drive
☐ AU22 **HDMEM** needs MMU
☐ AU23 **RD PREP** preps rigid disk
☐ AU24 **HD INSTALLER**
☐ AU25 **MAGIC WORKBENCH** Superb icons (HD only)
☐ AU26 **AGA UTILITIES 2** 256 colour icon ed etc
☐ AU27 **AGA UTILITIES 3** Kill aga etc
☐ AU28 **AGA UTILITIES 4** Bblank, checkaga etc
☐ AU29 **AGA UTILITIES 5** Degrader, AMIGA to double
☐ AU30 **AGA UTILITIES 6** A4091 patch, Ham8, etc.
☐ AU31 **A1200 VIRUS KILLERS**
☐ AU32 **NEW WB3 SUPER KILLERS**
☐ AU33 **A1200 INTROS**
☐ AU34 **HOY AGA DEMO 1**
☐ AU35 **HOY AGA DEMO 2**
☐ AU36 **NIGHTBREED** (2 disks) AGA slledes
☐ AU37 **FERRARI AGA SLIDES**
☐ AU38 **CYNOSTIC SLIDES**
☐ AU39 **KEITH RHODES PICS** Fantasy
☐ AU40 **RETINA BURN AGA** Brill demo
☐ AU41 **PANTARHEI AGA** Great new demo
☐ AU43 **MSM v1.8** for programmers
☐ AU44 **MAIN ACTOR** Modular anim. package
☐ AU45 **AGA BLANKER** – 14 different ones
☐ AU46 **STARTREK PICS 1-5** (5 disks)
☐ AU47 **MAGIC FACTORY SLIDES 1** – Brill Sci-
☐ AU48 **MAGIC FACTORY SLIDES 2** – More Sc
☐ AU49 **PYGMY PROJ. EXTENSION** – Rave
☐ AU50 **POINT OF SALE DEMO** – Superb
☐ AU51 **BLACKBOARD** – Image Processor
☐ AU53 **WB3 BACKGROUNDS**
☐ AU54 **KILL AGA v2** Turn off AGA chipset
☐ AU55 **KLONDIKE AGA** (3 disks)
☐ AU56 **MOTOROLA INVADERS 2** (2 disks)
☐ AU57 **UCHESS** (4Mb RAM req'd)
☐ AU58 **AGA TETRIS**
☐ AU59 **STEVE PACKER** (10 disks) Animations
☐ AU60 **NIGHTBREED** AGA Frac Flight
☐ AU61 **MEGABALL 3** AGA
☐ AU62 **WB3 DATATYPES + COMMANDS** (2 di
☐ AU63 **AGA SOFTWARE COMP** (4 disks)
☐ AU64 **AGA ANIM, PLAYER + TOOLS** (2 disk
☐ AU65 **AGA+ PICASSO COMP** Molecular rend
☐ AU66 **TEXTURE MAPPING** demo (2 disks)
☐ AU67 **ALERT TIMER** System alert timing
☐ AU68 **VTEK VIEWER** with AGA support
☐ AU69 **VOLCANO** New AGA Megademo
☐ AU70 **XANADU** Superb AGA demo
☐ AU71 **IT SMELLS LIKE CHANNEL No5** Brillian
☐ AU72 **ASSASSINS MULTIVISION AGA** Excelle
☐ AU73 **JPEG DATATYPES**
☐ AU74 **CHROMAGIC AGA** Dual crew music
☐ AU75 **MANGA SLIDES AGA** (4 disks)
☐ AU76 **MORE IMAGINE OBJECTS** (13 disks) f
☐ AU77 **NLP RENDERSHOW** (2 disks) ray-trace
☐ AU78 **BACKDROP STRAMASH** background p

GAMES

☐ G4 **MEGABALL** Breakout – very addictive
☐ G5 **STAR TREK I** (2 disks) Space (Not A1200)
☐ G22 **CARD GAMES** Harp, Plait, Queens etc
☐ G34 **RETURN TO EARTH** Elite type
☐ G44 **BATTLEFORCE** Fantasy roll playing game
☐ G45 **DRAGON CAVE** Dungeon Master type
☐ G52 **GREYSLAYER** Arcade adventure
☐ G54 **STAR TREK 2** (3 disks)Not 1200
☐ G56 **FRUIT MACHINE** * Excellent
☐ G57 **MECHFORCE** (2 Disks) RPG
☐ G67 **TREASURE HUNT** (6-8 yrs)
☐ G68 **CHEAT LIST GAMES V1.0**
☐ G73 **ZEUS – THE GAME** Puzz tiles
☐ G74 **DUNGEON DELVER** (2 Disks) Mazes
☐ G75 **PICK UP A PUZZLE** * (2 Disks) Jigsaws
☐ G76 **CHAINSAW DEATH** * Futuristic maze type
☐ G77 **CAN YOU PICTURE IT** * (2 Disks) Jigsaw
☐ G79 **BALLOONACY** * Bomb the skyscrapers
☐ G82 **BLACKJACK** Card game
☐ G92 **STAR TREK THE NEXT GENERATION** (Not A1200)
☐ G94 **HACK** Text adv
☐ G95 **DRAGON TILES** Great tiles game
☐ G96 **BOARD GAMES**
☐ G97 **ATIK ATAK** C64 game
☐ G125 **RAMIFY** Pairing
☐ G133 **CARD SHARP** 5 card games
☐ G134 **TOTAL WAR** Risk type
☐ G136 **SKYFLYER** WWII S.E.U.
☐ G137 **PUGGLES** Q'bert brill
☐ G138 **SQUATS REVENGE** Wolf clone
☐ G140 **GAMES COMPILATION I** 6 games
☐ G141 **ATLANTIS I** Strategy
☐ G142 **NAPOLEONIC WAR SIMULATION** Strategy
☐ G143 **MISSION RAID PART II** S.E.U.
☐ G144 **SNAKES & LADDERS** Good
☐ G145 **GAMES GALORE VOL 7** For the young
☐ G146 **AIR WARRIOR** Flight simulation
☐ G152 **DUNGEONS OF NADROJ** Hacktype
☐ G153 **QUICK & SILVER** Platform. Excellent
☐ G154 **MASTER OF THE TOWN** Shoot the sign posts
☐ G156 **ETHOS** Text adv + pics
☐ G157 **BATTLE CARS** 3D cars S.E.U.
☐ G158 **CHALLENGER** Quiz - 5 player
☐ G182 **CATACOMB** Graphic adv – very well done
☐ G183 **KINGDOM AT WAR** War games
☐ G184 **SMASH TV RIPOFF** S.E.U. Futuristic
☐ G185 **DOODY** Mario type platform
☐ G186 **PICK OUT** Pair it. V. good
☐ G187 **NU-SHOOT EM UP** Space

☐ G189 **STRIKE BALL** Baseball. Brill!
☐ G192 **CRAZY SUE** Platform. 1st rate
☐ G193 **HENRY IN PANIC** Manic Miner type
☐ G194 **CONCENTRATION V3.3** Pair it type
☐ G195 **DESTINATION MOONBASE** Thrust
☐ G196 **ESCAPE FROM JOVI III** Caves
☐ G197 **NO MANS LAND** War S.E.U.
☐ G198 **DOMINOES** V. Good
☐ G200 **MIDNIGHT THIEF GAME** Adv
☐ G204 **GRUB GRABBER II** Help Elvin! Avoid gremlin
☐ G205 **SWORD OF WORLOCK** 3 disk Adv
☐ G206 **A NIGHT AT THE TOP** Terrorist adv
☐ G208 **QUADRIX** Puzz. Excellent
☐ G209 **YUM YUM** * Pacman
☐ G210 **REVENGE MUTANT CAMELS** S.E.U.
☐ G211 **BATTLEMENTS** Hunchback platform
☐ G212 **LEMMINGOIDS** Blast them!
☐ G218 **KARATE WORM** Platform-cute
☐ G219 **SNAKE IN THE GRASS** Platform – neat
☐ G221 **WIZARDS DOMAIN** Graphic adv
☐ G222 **PIXIE KINGDOM** (2 disks)
☐ G223 **ARCADIA** Breakout – very popular
☐ G224 **PORK A PORK** Stop the foxes
☐ G225 **MR BRICK** – Mario type
☐ G226 **RAID III** S.E.U. – wicked
☐ G227 **SERENE III**
☐ G228 **WOTSITSNAME** Quiz
☐ G229 **TETREN** – tetris
☐ G230 **NUMPTY & THE ALIEN INVADERS**
☐ G233 **OMEGA RACE** S.E.U. Great
☐ G234 **MENTAL IMAGES DISK 2** 3 games
☐ G262 **MR & MRS** Young platform – very good
☐ G263 **TANX** Great 96%
☐ G264 **DEFENDA** Arcade 95% Brilliant conversion
☐ G265 **GRAND PRIX SIMULATOR** Mega
☐ G266 **NUMBER FUMBLER** Number puzzle
☐ G267 **LEMMINGOIDS** Blast away
☐ G268 **GROWTH**
☐ G270 **PROJECT 1**
☐ G271 **LAZER ZONE**
☐ G272 **LEMMINGS PACK**
☐ G273 **THE MAZE GAME**
☐ G275 **APIDYA**
☐ G276 **SHOOT OUT**
☐ G277 **SUPER SKODA CHALLENGE**
☐ G278 **COMPUTER CONFLICT 2**
☐ G279 **ANTEP & SLOT CARS GAME** RPG
☐ G280 **TRICKY & THE TURN GAME**
☐ G283 **CARD GAMES 2**

☐ G285 **MIND GAMES 21**
☐ G286 **HYPER TEXT CHEATS**
☐ G287 **TECHNOBAN** Puzzle game
☐ G289 **THE BEAST** Mission to kill
☐ G290 **NADILOT RUN** Cat & dog chase
☐ G291 **OUCH** Clobber those moles
☐ G292 **ABSOLUTE ADV VOL ONE**
☐ G293 **CHAOS STRIKES BACK** Maps etc.
☐ G294 **GAME TAMER v4.59** Latest
☐ G302 **AMOS CRICKET** Good cricket game
☐ G303 **ARAZNAX** 40 levels
☐ G304 **HELL ZONE** Elite
☐ G305 **FATAL MISSION** Good shoot 'em up
☐ G307 **CROSSMAZE/CRYPTO KING** Words
☐ G308 **INTERLOCK (AMOS)** 25 levels
☐ G309 **TANK ATTACK & MOUTHMAN**
☐ G311 **THRALLBOUND** Viking Adv Text
☐ G312 **BOUNCE AND BLAST** Platform
☐ G313 **SOCCER CARDS** Run the club
☐ G314 **CYBERNETIX** Fast action
☐ G315 **STAR MIX 2** 3 games
☐ G316 **FLAG CATCHER** Squares puzz
☐ G317 **OMEGA** Adv Moria type
☐ G318 **TOP SECRET** Excellent graphics platform
☐ G319 **MADONNA** Jigsaw
☐ G320 **ROBOCOP GOES TO IRAQ** seu
☐ G321 **BACK TO THE FUTURE III** Funny
☐ G322 **45 CHEATS** Codes etc
☐ G323 **TOMCAT** F15 shoot 'em up
☐ G324 **SUPER QUIZ**
☐ G325 **POWER PONG** Boing
☐ G326 **MAHJONG** Tiles
☐ G327 **NESTER** Cards
☐ G328 **STARFLEET** Shoot 'em up
☐ G329 **EXCALIBER** Shoot 'em up
☐ G330 **IMPERIUM ROMANIUM** Battle
☐ G331 **SQUAMBLE** Very Spacey!!
☐ G332 **JETMAN** Good shoot em up
☐ G333 **MECHFORCE v 3.71** Latest update
☐ G334 **PROPERTY MARKET GAME** Strategy
☐ G335 **ROLL ON & LAMER** Pushing
☐ G336 **HACKLITE v 1.0** Moria & Hack
☐ G338 **DIE FILTH** (2 disks) Brill like Swiv
☐ G339 **ULTIMATE HINT KIT v1.0**
☐ G340 **THE ACE CHEATS DISK 2** Lots
☐ G341 **BATTLE OF BRITAIN** Strategy
☐ G342 **THE SECRET OF MONKEY ISLAND** (Demo)
☐ G344 **ESCAPE II** Creating games
☐ G345 **QUIZMASTER v 1.0** Test your knowledge

☐ G346 **NEBULA** Shoot-em-up fast action!
☐ G347 **ESCAPE** Into space!
☐ G348 **RUMMY** Excellent card game
☐ G349 **SPACE RESCUE** Super shoot 'em up
☐ G350 **INVADERS MARK II** Space invaders
☐ G371 **ERIC THE WARRIOR** Sim to Gauntlet
☐ G372 **KLAKTRIS** Tris type game
☐ G373 **CLI-TRIS** Latest TRIS
☐ G374 **DELUXE PACMAN**
☐ G375 **GALAGA 92** Shoot-em-up
☐ G376 **LIBERATOR GAME** Shoot-em-up
☐ G377 **ACK-ACK**
☐ G378 **CRAZY SUE 2** Latest platform
☐ G380 **LAST REFUGE** Invaders
☐ G381 **ZINGGER GAME** Karate game
☐ G385 **MORIA v5.4** Latest
☐ G386 **FRUIT MACHINE II** AMOS good
☐ G387 **OBLIVION** Defenda clone
☐ G388 **BOMB JACKY** Platform
☐ G390 **OTHELLO** Board game classic
☐ G391 **SOLITAIRE SAMPLER** Cards
☐ G392 **WILLY IN THE CASTLE** Excellent platform
☐ G393 **FRUIT SALAD** Platform. Reviewed in Format
☐ G394 **MARIO IN WONDERLAND** Brill clone – Mega!
☐ G396 **GIDDY** Great new platform game
☐ G398 **ATOMS** Weird!
☐ G399 **VECTA STORM** Brill new Tempest clone
☐ G400 **DIGITAL TETRIS**
☐ G402 **TETRIS PRO**
☐ G403 **SUPER PACMAN 92**
☐ G404 **BRIDGE**
☐ G405 **18th HOLE GOLF** (2 disks)
☐ G406 **SLIDE SQUARES** Puzzle
☐ G407 **THEY CAME FROM OUTER SPACE** Shoot em up
☐ G408 **SON OF BLAGGER** Excellent platform
☐ G409 **BRAINBOW** Addictive puzzle
☐ G410 **MYSTERY 2144 AD** Futuristic Murder adv
☐ G411 **GUSH** Fab pipeline clone
☐ G412 **MEXICAN MASSACRE** Arcade action
☐ G413 **100 MEGA GAMES** (7 disks)
☐ G414 **BOX** Adventure game
☐ G415 **SLAMBALL** Future Management sim.
☐ G416 **MAYHEM2** Multi player manic maze
☐ G417 **MUGSIE** Money making gangster adventure
☐ G418 **ROULETTE + PUNTO 2** Good game (not 1.3)
☐ G419 **BLITZ GAMES** Worm, buzzbar, speed etc.
☐ G420 **SKID MARKS** Amazing driving game.
☐ G421 **ZOMBIE, APPOCOLIPS AND DEFENDER 2** Brill!
☐ G422 **BILLY BURGLAR** Just try to escape.

☐ G423 **OLYMPIAD** (Lemmings) (2 disks)
☐ G424 **CAVE FLIGHT** Dodge the obstacles.
☐ G425 **SERIOUS BACKGAMMON** Demo
☐ G426 **AIRPORT**
☐ G427 **EXIT-13** Puzzle
☐ G429 **BOW & ARROW**
☐ G430 **BLOAD RUNNER**
☐ G431 **POPEYE** C64 classic
☐ G432 **CASTLE NORRIS**
☐ G433 **THE RIGHT WAY** Lemmings
☐ G434 **PATIENCE** Cards
☐ G435 **PREMIERE PICKS** Football
☐ G436 **BOB N' FLOP**
☐ G437 **ROAD TO HELL** Racing brill!
☐ G438 **FIGHTING WARRIORS** Street Fighter 2 clone
☐ G439 **LEMMINGS 2** HD install
☐ G440 **NAPOLEONIC WARFARE** (2 Disks) Strategy
☐ G441 **TEXAS CHAINSAW MASSACRE**
☐ G443 **SCRABBLE**
☐ G444 **SMURF HUNT**
☐ G446 **THRUST DUEL** Gravity control
☐ G447 **EXORCISM** (2 Disks) Adv. & graphics
☐ G448 **CONQUEST & DOMINATION** Strategy war game
☐ G450 **DONKEY KONG** Platform
☐ G451 **OPERATION METEOR** 3D Graphics
☐ G452 **MR MEN OLYMPICS** (2 Disks)
☐ G453 **SUITCASE** (2 Disks) Adventure
☐ G454 **ESCAPE FROM DOOM** RPG type
☐ G455 **HIGH OCTANE** Overhead driving
☐ G456 **FATAL MISSION 2** Shoot em up
☐ G457 **KUNG FU CHARLIE** Platform beat em up
☐ G458 **GAMES GALORE 13**
☐ G459 **MENTAL IMAGES Vol 2**
☐ G460 **IRON CLADS** (2 disks) Naval battle Not 1200
☐ G461 **INTREPID** Rescue Dame form Evil
☐ G462 **QUIZ MASTER**
☐ G463 **QUIZ CHALLENGE**
☐ G464 **EYE OF BEHOLDER II** Cheats
☐ G465 **CHEATS** Many solutions
☐ G466 **PASSWORD PARADISE**
☐ G467 **MEGACHEATS v3.0**
☐ G468 **ELEVATION 2** Platform
☐ G469 **SCORCHED TANKS** Battle
☐ G470 **AMOS LOADSAMONEY** Fruit machine
☐ G471 **STAR TREKING TRIVIA** (2 disks)
☐ G472 **SUPER TOMCAT** Shoot 'em up
☐ G475 **NOSTROMO CHEATS & SOLVES**
☐ G476 **ORC ATTACK**
☐ G477 **TANK HUNTER**

☐ G478 **RAID 4**
☐ G479 **MEGABALL 2**
☐ G480 **MEGABALL 3**
☐ G481 **ROACH MOTEL** - Kill the roaches! Platform
☐ G482 **ASOKOBAN v1.1**
☐ G483 **BILLIARD GAMES** 3 games. Shareware
☐ G484 **BLOODBALL** Crillon type
☐ G485 **CRITTUR CAULDRON** Life simulation
☐ G486 **DR WHO**
☐ G487 **DUNE 3** (2 disks) Worm race game
☐ G488 **GALAXY MAPPER**
☐ G489 **JB POKER** Cards
☐ G490 **MF HQO** use with Mechforce
☐ G491 **MR BROWNSTONE** B/dash clone
☐ G492 **NEW WORLD** (2 disks)
☐ G493 **NO MANS LAND** 2 players
☐ G494 **PARADROID** action like C64
☐ G495 **PROKER** Card variation
☐ G496 **REUDA** Wheel of fortune
☐ G497 **SNACKMAN** Pacman clone
☐ G498 **ANGBAND** (3 disks) Moria type
☐ G499 **BLEED 1** Cool adventure
☐ G500 **BLEED 2** Next part
☐ G501 **STARBASE 13** Monkey Island clone
☐ G502 **TITANIC CHEATS**
☐ G503 **ENTITY** Zap the nasties
☐ G504 **HOTBLOX** 2 player Tetris
☐ G505 **NUMTRIS** Number Tetris
☐ G506 **GAME TAMER V4.59** Latest cheats
☐ G507 **JELLYQUEST** 3D puzzle game
☐ G508 **ESCAPE FROM DOOM** RPG adv.
☐ G509 **MICROMARKET v1.2** Buy and sell shares
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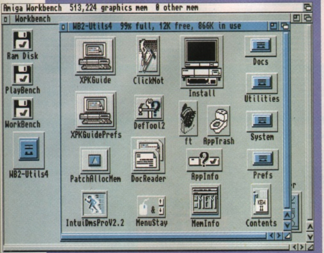
WB2 UTILITIES DISK 4

workbench 2/3 utilities

It's another of those very useful utility compilations. Here's what's on offer: *AppTrash*, a user friendly alternative to the standard trashcan; XPKGuide which will read both "XPKed" and Powerpacked guide files; *FT*, yet another flying toaster screen blanker and several other neat little programs. Perhaps my favourite though, is *DefTool2*, which lets you define the 'Tool Type' of any number of icons in one go. Absolutely fantastic if you change your standard text or picture viewer for example. Most of these utilities are best suited for hard drive systems.

Available from: KEW=II Software, PO Box 672, South Croydon, Surrey CR2 9YS. Tel: 081 657 1617. Price: £1.50 including P+P (minimum order two disks).

80%



Amiga Workbench 513,224 graphics mem 0 other mem
Workbench
Ram Disk
PlayBench
WorkBench
WB2-Utils4
WB2-Utils4 99% full, 12K free, 866K in use
XPKGuide
ClickNot
Install
Docs
Utilities
XPKGuidePrefs
DefTool2
ft
AppTrash
System
PatchAllocMem
DocReader
AppInfo
Prefs
IntuiDmsProV2.2
MenuStay
MemInfo
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AREXX GUIDE 2.0

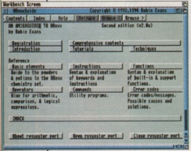
education/programming

These days it's almost impossible to find a serious application that doesn't have something called an '*ARexx* port.' *ARexx* is a scripting or macro language that can control other programs. If you regularly use a program for processing files of any nature, and find yourself pressing the same buttons and selecting the same menu options time and time again, you can probably write an *ARexx* script that will do it all for you.

This disk is not for beginners, which is bordering on shameful, as *ARexx* was designed to be used by novices and non-programmers. If you are a novice, then I would recommend that you read one of the books available, such as *Mastering Amiga ARexx*. If you're an old hand at programming then *ARexx* Guide will be of more use, but not as much as you might hope. It's not that *ARexx Guide* is badly laid out; it's the best laid out guide file I have ever seen. It's not that it lacks information and it's not that the writer doesn't know his subject; the author is one of the world authorities on the *Rexx* language (*ARexx* is the Amiga version of *Rexx*). Unfortunately, it is written in a very unaccessible style which makes reading this guide very hard work even for seasoned programmers.

Available from: Roberta Smith DTP, 190 Falloden Way, Hampstead Garden Suburb, London NW11 6JE. Tel: 081 455 1626. Disk No. BU170. Price: 90p plus 50p P+P per order.

60%



Workbench Screen
ARexxGuide
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About requester port
Open requester port
Close requester port

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AN AMIGAGUIDE® TO ARexx
by Robin Evans

Second edition (v2.0a)

Reference

Guide to the powders & potions in the ARexx chemistry set.

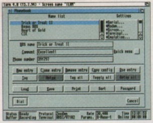
Syntax & explanation of keywords and instructions

Syntax & explanation of built-in & support functions.

Glue for arithmetic, comparison, & logical expressions.

Utility programs.

Error codes/messages. Possible causes and solutions.



Term 4.0 (13.7.94) · Screen name "TERM"
Phonebook
Name list
Settings
Serial...
Modem...
Screen...
Terminal...
Emulation...
Quick menu
New entry
Clone entry
Remove entry
Copy config
Use entry
Tag
Untag
Tag all
Toggle all
Untag all
Load
Save
Print
Sort
Password
Dial
Cancel

Trick or Treat II
Bogus BBS
Heart of Gold
CIX

BBS name: Trick or Treat II
Comment: Excellent!
Phone number: 391797

Status: Ready
Buffer: Recording
Protocol: Zmodem
Terminal: ANSI/VT102
Rate: 38,400
Params.: 8-None-1
Time: 13:01:53
Online: 00:00:00

A menu. And there's lots of them.

TERM 4.0

communications

Term is a big program, coming on two compressed disks – definitely a hard disk only system. Everything about the program is very neatly presented, though if you are not running it on a multi-sync monitor, some of the screens scroll around, which I found immensely annoying. However, it does support the Workbench 'Monitor Types' preferences.

When you hit the right mouse button you'll be in for a big surprise: the number of menus is outrageous. Everything is configurable. There are some wonderful features such as the ability to define different upload and download directories for different BBSs; password protection for the program itself, which will prevent unauthorised use; the ability to make batches of files to upload; *ARexx* support and more.

There were a few things that I missed from *NComm* (my day-to-day Comms software), most notably the phone list menu. But perhaps the thing I missed most of all was my memory. Yes, *Term* chews through memory like modems chew through your phone bill. You'll need at least 2Mb of memory if you want to run anything more than a shell in the background. Despite the extra features over and above *NComm2*, the latter is still my preferred Comms program. That may change as I get used to *Term*, but I doubt it. However, if you have lots of memory, a good monitor and a bit of patience, *Term* is worth worth looking into.

Available from: Cynostic, Office O1, New Enterprise Centre, Little Heath Ind. Est., Old Church Road, Coventry CV6 7NB. Tel: 0203 6816 87. Price: £4.50 including P+P.

85%

MAGIC WORKBENCH EXTRAS 2

icons and patterns

From Workbench 2 onwards, users have been able to spruce up their screens with a little colour. A colour Workbench can brighten up your day, and makes a nice change from the usual grey backdrop. The idea behind the original Magic Workbench was to give you access to all that imagery, without any fuss or hassle. Since then, third party developers have released their own graphics disks to go with it. This is just such a disk.

MagicWB Extras 2 gives you a whole load of different backgrounds to play with, and a few neatly designed icons on the side. There's nothing Earth shattering about this collection, but the icons are dinky and the backdrops are highly varied. The backdrops are given numbers for filenames, which is a major pain when you want to find a specific one. If you have the memory, give them a go and put a splash of colour into your Amiga life.

Available from: KEW=II Software, PO Box 672, South Croydon, Surrey CR2 9YS. Tel: 081 657 1617. Price: £1.50 including P+P (minimum order two disks).

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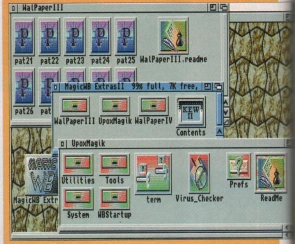

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3 Disks
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2 Disks
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☐ **3D Games Series**
(CAT 849 - 1 DISK)
Includes a brilliant 3D adventure game, which is absolutely huge.

☐ **Automobiles**
(CAT 2957 - 1 DISK)
This is a hot new Skidmarks type of game for upto three players.
It looks great and plays well.

☐ **Advanced Hero Quest**
(CAT 1920 - 1 DISK)
Let the computer be the game master, and provide the challenge You need the board game to play.

☐ **Deluxe Galaga**
(CAT 1974 - 1 DISK)
A true classic as far as shoot em up games go, and fantastically professional with it. Re-live some arcade nostalgia now.

☐ **Diplomacy**
(CAT 1909 - 1 DISK)
A very competent computer version of that great board game.

☐ **Gnu Chess**
(CAT 2042 - 1 DISK - NOT 500)
A very good looking playable chess program. Easily one of the best around.

☐ **Golden Oldies**
(CAT 1308 - 1 DISK)
A wonderful collection of arcade classics from the early days.
A good nostalgia trip

GAMES

☐ **Grand Prix 93**
(CAT 2692 - 1 DISK)
A surprisingly deep and highly involved management game.

☐ **Gush**
(CAT 1209 - 1DISK)
This is probably the best version of Pipemania you can get. Very playable and very addictive.

☐ **High Octane**
(CAT 680 - 1 DISK)
This is a corking over head car racer for two players. It's full to the brim with thrills and spills, and plenty of weapon pick ups.

☐ **Jellyquest**
(CAT 2336 - 1 DISK)
A sort of Q-Bert puzzler, and a good one at that. Quite fiendish.

☐ **Klawz The Cat**
(CAT 1735 - 1 DISK)
This is a lovely cute platform game, with classic gameplay.

☐ **Knights**
(CAT 1098 - 1 DISK)
A very very good playable two player over head adventure game.

☐ **LCD Dreams**
(CAT 1789 - 1 DISK)
A collection of four old LCD hand held games re-vamped for the Amiga. Great stuff.

☐ **Overlander**
(CAT 2157 - 1 DISK)
An up dated version of the old classic Moon Patrol game. Fab.

☐ **Pop Quiz**
(CAT 2250 - 1 DISK)
Test your knowledge of pop history with this pop-tastic quiz.

GAMES

☐ **Red Dwarf Quiz**
(CAT 887 - 1 DISK - NOT 500)
Test your knowledge of the TV series with this Dwarf-tastic quiz. It's very though indeed.

☐ **Road To Hell**
(CAT 565 - 1 DISK)
Yet more over head racing in yet another great game. This time you can customise your car as well.

☐ **Starbase 13**
(CAT 1213 - 2 DISKS)
This is an epic graphic adventure with lots to solve. It's very playable, and quite funny.

☐ **Task Force**
(CAT 2122 - 1 DISK)
Just happens to be a stonkingly good Space Crusade type strategy combat game. Play it Now!

☐ **Tetren**
(CAT 66 - 1 DISK)
Tetren is a very good Tetris clone. It features a good selection of new oddities, and two player option.

☐ **T.M.A.**
(CAT 698 - 1 DISKS)
This is a demo version of a very good arcade adventure game which is very swish indeed.

☐ **Total War**
(CAT 1043 - 1 DISK)
A brilliant version of the board game Risk. Six players computer or human compete, and battle.

☐ **Wacko Jr In Wonderland**
(CAT 273 - 1 DISK)
A delightfully cute platform game which should easily please any kids, or even a few adults too!

ASSASSINS

☐ **Assassins 3**
(CAT 104 - 1 DISK)
Megaball - great breakout game
Drip - polished Painter game.

☐ **Assassins 123**
(CAT 173 - 1 DISK)
Includes the excellent Artillerus 2 which is brilliantly addictive, and for up to eight players.

☐ **Assassins 114**
(CAT 185 - 1 DISK)
International Cricket is on here, and so is Insectoids 2. Brill.

☐ **Assassins 95**
(CAT 286 - 1 DISK)
Includes two football manager games which are quite different - from each other.

☐ **Assassins 138**
(CAT 1348 - 1 DISK)
Includes the un-missable game Scorched Tanks. Totally addictifve, and great multi player fun.

☐ **Assassins 128**
(CAT 1632 - 1 DISK)
Three brilliant versions of some arcade classics. Includes - Space Invasion, Deluxe Pacman and Solar System Wars.

☐ **Assassins 139**
(CAT 2282 - 1 DISK)
Includes a good fruit machine game, and a weird breakout.

☐ **Assassins 182**
(CAT 575 - 1 DISK)
Includes Colorial Conquest a huge Sim/Combat game which is very involved, and tough!

☐ **Assassins 190**
(CAT 779 - 1 DISK)
Includes Gravity Force 2 and the four player Dogfight game.

MUSIC/DEMO

☐ **Fairlight 242**
(CAT 2781 - 1 DISK)
Contains a very long video sequence set to the usual techno type music.

☐ **9 Fingers**
(CAT 383 - 2 DISKS)
An audio visual feast brought to you from Spaceballs. It's pop-video tastic and no mistake.

☐ **Aluminium**
(CAT 2419 - 1 DISK)
A nice new demo with a nice little ray traced animation.

☐ **Armagedon**
(CAT 182 - 1 DISK)
A hot demo with good design and a good original bit of music.

☐ **Arte**
(CAT 562 - 1 DISK)
A graphical extravaganza of a demo with funky-tronic music.

☐ **Attraction**
(CAT 1243 - 1 DISK)
A great music disk with some lovely thoughtful music.

☐ **Basso Continuo**
(CAT 1059 - 1 DISK)
Ten excellent funky tunes are on here for your listening pleasure.

☐ **Doop Re-mix**
(CAT 337 - 1 DISK)
A good re-mix of that chart topping tune.

☐ **Gastric Ulser**
(CAT 2724 - 1 DISK)
A good collection of some very hard rave tunes. Not for the feint hearted listener.

MUSIC/DEMO

☐ **Gospel Karaoke**
(CAT 10 - 1 DISK)
It sounds unbelievable, but it is
Karaoke Amiga!

☐ **Jesus On Cheese**
(CAT 1251 - 1 DISK)
A flashy fast paced rave demo which will have you seeing thing

☐ **Kaos Theory**
(CAT 1114 - 1 DISK)
It's rave-omatic Amiga time wit
some seriously hard tunes.

☐ **Piece Of Mind**
(CAT 980 - 1 DISK)
A great 3D extravaganza demo with some very classy music.

☐ **Scoopex 2 Unlimited**
(CAT 2241 - 2 DISKS)
Good old Scoopex supplies 3 very well produced 2 Unlimited mixes.

☐ **Sequencial**
(CAT 547 - 1 DISK)
A roller coaster of a demo.

☐ **For Your Mind**
(CAT 2462 - 1 DISK)
Fast video, fast music, a really moving experience for sure.

☐ **State Of The Art**
(CAT 19 - 1 DISK)
An all time classic demo. Brillian
visuals and a cracking dance tune.

☐ **Star Trek Rave**
(CAT 2390 - 1 DISK)
Is nothing sacred? Apparently not.
A silly story with pictures which provide a good laugh

☐ **Techno Tracks 2**
(CAT 1664 - 1 DISK)
Awesome music and some great visuals make this a must.

ALL THE DISKS LISTED ON THIS PAGE ARE COMPATIBLE WITH ALL AMIGA COMPUTERS UNLESS OTHERWISE STATED

USEFUL

☐ **600 Business letters**
(CAT 291 - 1 DISK)
Lots of letters for lots of things.

☐ **Account Master**
(CAT 1817 - 1 DISK)
A good little accounts program to help keep your books.

☐ **Amibase Pro 2**
(CAT 293 - 1 DISK)
Probably the best database program you can get. Very usable indeed.

☐ **Astronomy**
(CAT 2847 - 1 DISK)
Produces very detailed planetary information for astronomers.

☐ **Audio Magic 7**
(CAT 1058 - 1 DISK)
Audio utilities including the very good Quadra Composer, a very professional music sequencer.

☐ **Classic Utilities**
(CAT 1863 - 1 DISK)
A true collection of classics that you really should have.

☐ **Create Adventures**
(CAT 1027 - 1 DISK)
A very vice authoring program.

☐ **Crossword Creator**
(CAT 2161 - 1 DISK)
Takes the strain out for you.

☐ **Crunchers Disk**
(CAT 1227 - 1 DISK)
If disk space is getting tight then this disk is definitely for you.

☐ **D-Copy 3.1**
(CAT 2582 - 1 DISK)
The best disk copier you can get.

☐ **Dynamic Skies**
(CAT 1512 - 1 DISK)
An amazing night sky viewer which is feature packed.

USEFUL

☐ **Easycalc**
(CAT 1042 - 1 DISK)
Simply the best spreadsheet.

☐ **Edword Pro 4**
(CAT 2071 - 1 DISK)
A brilliant text editor which has a very good feel about it

☐ **Forecaster**
(CAT 607 - 1 DISK - NOT 500)
If you're a betting man/woman, this disk could be up your street.

☐ **Grinder**
(CAT 1249 - 1 DISK)
A versatile screen converter.

☐ **Hyperdrive**
(CAT 1116 - 1 DISK)
Creates a protected RAM disk.

☐ **Inscript**
(CAT 2693 - 1 DISK)
A simple easy to use and effective video titling program.

☐ **Mandelmania**
(CAT 820 - 1 DISK - NOT 500)
A very fast fractal generator with fast zoom in and out.

☐ **Mandelplot**
(CAT 90 - 1 DISK)
An excellent shareware fractal generator. Tons of fractal types.

☐ **Magnum**
(CAT 2666 - 1 DISK)
A good disk magazine creator.

☐ **Opti Comms 2**
(CAT 2357 - 1 DISK)
An excellent collection of tools for use with you modem.

☐ **PC Task 2**
(CAT 1281 - 1 DISK)
A working demo of this very good PC emulator program.

USEFUL

☐ **Pools Tools 2**
(CAT 442 - 1 DISK)
A great rich quick program ? Could be Couldn't it.

☐ **PP Mini Crunch**
(CAT 838 - 1 DISK - NOT 500)
A user friendly interface for the excellent Powerpacker. Very nice.

☐ **S-I-R-D-S**
(CAT 2214 - 1 DISK)
Create your very own stereogram pictures and baffle your friends.

☐ **Start Of The Art**
(CAT 2317 - 2 DISKS)
These disks are packed chocker with various graphics programs.

☐ **Starview**
(CAT 1610 - 1 DISK)
A night sky viewer which even marks out the contellations.

☐ **Text Engine 4**
(CAT 1464 - 1 DISK)
The best word processor there is. Very well suited to the Amiga.

☐ **The Money Program**
(CAT 1811 - 1 DISK)
An excellent home money monitor program. Very useful.

☐ **Utlity Disk Maker**
(CAT 2371 - 1 DISK)
Proves very helpful for creating your own disks, serious or not.

☐ **Virus Checker**
(CAT 770 - 1 DISK)
This essential disk always has the very latest version of the premier Amiga virus detector/killer

☐ **X Beat Pro**
(CAT 415 - 1 DISK)
A very friendly music sequencer program. Very good for learners.

ANIMATION

☐ **Animation Studio**
(CAT 2406 - 1 DISK)
A fantastic program to ger you started in animation. Features the onion skin layering technique.

☐ **Boat**
(CAT 933 - 1 DISK)
A very nice animation of a typical english garden scene, with a boat.

☐ **Bonds Last Stand**
(CAT 835 - 1 DISK)
Bond cops it at last, and not before time too.

☐ **Human Cannonball**
(CAT 1599 - 1 DISK)
An amusing story of how not to be a human cannonball.

☐ **Linus**
(CAT 1018 - 1 DISK)
A very original anim with a very good cartoon atmosphere.

☐ **Main Actor**
(CAT 1236 - 2 DISKS - NOT 500)
Top animation editor/player.
Allows creation of very high resolution animations e.i. HAM.

☐ **Raging Hormone**
(CAT 2780 - 1 DISK)
Poor old hormone tries to pull a bird. He should know better.

☐ **Raging Hormone 2**
(CAT 2473 - 1 DISK)
That thick hormone just doesn't know when to stop. Very funny.

☐ **Raging Hormone 3**
(CAT 2130 - 1 DISK)
Hormone passes on what he has learnt to his son. What a shame.

☐ **Savings**
(CAT 112 - 1 DISK)
The post office savings advert quite a novel end. Funny.

MISCELLANY

☐ **AMOS Libraries**
(CAT 344 - 1 DISK)
This great disk includes five new command extension libraries for Amos ver 1.3/Amos pro. A must.

☐ **Communicate**
(CAT 279 - 1 DISK)
Learn how to communicate with sign language and many more.

☐ **Octamed Tutor**
(CAT 2456 - 1 DISK)
An excellent guide to getting the most from Octamed or MED.

☐ **Spectrum Emulator**
(CAT 1446 - 1 DISK)
Turn your Amiga into a 48k ZX Spectrum. A fastish Amiga is recommended though.

☐ **Speccy Classics**
(CAT 498 - 1 DISK)
A collection of classic old Spectrum games for use with the above emulator program.

☐ **Speccy Classics 2**
(CAT 1499 - 1 DISK)
More great games for emulator.

☐ **Speccy Classics 3**
(CAT 2993 - 1 DISK)
And yet more corkers.

☐ **The Invisible World**
(CAT 1786 - 1 DISK)
A visual insight into the tiny world of microscopic bugs.

☐ **Ultimate Cheat Disk**
(CAT 2583 - 1 DISK)
Another disk packed to the gills with game tips and cheats.

☐ **Vic 20 Emulator**
(CAT 1087 - 1 DISK)
Turn your Amiga into a VIC 20. Comes with tons of games. Needs a fast Amiga to fully appreciate.

1200 ONLY

A COLLECTION OF DISKS FOR TH
AMIGA 1200 COMPUTER

☐ **AGA Diagnostic**
(CAT 1866 - 1 DISK)
Check out your computers health.

☐ **Big Time Sensuality**
(CAT 2215 - 2 DISKS)
An audio visual treat of a demo with stunning graphics and an almost CD quality soundtrack.

☐ **Friday At Eight**
(CAT 2033 - 1 DISK)
A very fast paced demo with a really brilliant music track.

☐ **Full Moon**
(CAT 1740 - 1 DISK)
A brilliant demo with a spooky
and a good pacey tune.

☐ **Klondike Deluxe**
(CAT 782 - 3 DISKS)
A patience card game with some very beautiful picture cards.

☐ **Love**
(CAT 898 - 2 DISKS)
A lovely new demo. Nuff said.

☐ **Maximum Overdrive**
(CAT 2986 - 2 DISKS)
A very long full motion video
which lasts ages.

☐ **Megaball AGA**
(CAT 842 - 1 DISK)
The most popular breakout type game gets even nicer. A must.

☐ **Real**
(CAT 2379 - 1 DISK)
Possibly the best AGA demo to date. Totally awesome.

☐ **Relokick 1.4**
(CAT 2918 - 1 DISK)
Brings downward compatibility
your new 1200 to help get some
those old programs working.

THE EASYBASE CATALOGUES

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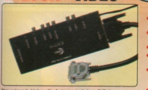
FOR ALL AMIGAS



This extremely high quality Amiga genlock, from GVP, has an intuition-based software control panel with full ARexx and command line interfaces. It is easy to use and supports most VHS and S-VHS video models. For crisp overlays of scrolling, or static titles, graphics over live video and recording to videotape with high quality results.

GOLD 94%

VIDEO: **G-Lock's** six video control panels enable you to perform a wide array of special effects on still or motion video including:
- Colorizing for unique visual effects.
- Creating your own "Classic" black & white videos using the Colorkill feature
- Colour filter effects
- High-quality keying effects with bitplane or chroma keying
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AUDIO: **G-Lock's** dual-input audio panel switches, mixes and shapes sound for effects such as:
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- Treble and bass equalization
- Plus, add DSS8+, see below, or any Amiga created/ modified digital audio samples to your final mix

- *Simple, Intuitive Mouse-Driven Software Control Panels. Full ARexx, CLI and Workbench Interfaces*
- *Software Selection of 2 Composite Video Inputs or 1 Y/C (S-Video) Input*
- *Simultaneous Composite & S-Video and RGB Outputs*
- *Software Selection or Mixing of 2 Audio Inputs with Volume, Bass and Treble Control*
- *Software-Driven Video Processing Amplifier Offering Complete Real-Time Signal Processing Control, Including Hue, Brightness and Saturation.*
- *Software-Controlled RGB Colour Splitter Compatible with Video Digitizers*
- *Built-in Transcoder Converts Input Video to Composite, Y/C, RGB or YUV Outputs*
- *Full ECS/AGA Support for Full Compatibility with A1200 and A4000 Systems*
- *Compatible with Popular Titling Software like AmigaVision™, Scala-Multimedia 200/210/300™ and Gold Disk's Video Director™*
- *Full Audio Support*

G-LOCK
~~£299~~
£269
INCLUDING VAT - VID 2500

A1230-II 40MHz & 50MHz ACCELERATORS

FOR AMIGA 1200

WITH UNIQUE MODULE EXPANSION OPTIONS

- *40MHz 68030EC and 50MHz 68030 Accelerator*
- *Unique Feature Connector for Module Expansion*
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The new GVP A1230-II advanced accelerators are available in 40MHz 68030EC and 50MHz 68030 configurations. They can make your Amiga run at least 6½ times (40MHz version) or at least 8½ times (50MHz version) faster than the standard A1200 and feature unique warranty safe module expandability - see right.

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The 50MHz version includes a built-in Memory Management Module (MMU), for more sophisticated memory control. An optional FPU (Floating Point Unit: for faster maths calculations) is available for the 40MHz and 50MHz versions (see below), both have RAM upgrade options (up to 32Mb, see right).

RAM UPGRADES

The A1230-II accelerator combo has two 32-bit SIMM sockets for easy Fast RAM expansion. The following SIMMs can be used in those slots.

1Mb 60ns Fast RAM SIMM	(RAM 3216)	£69 inc VAT
4Mb 60ns Fast RAM SIMM	(RAM 3246)	£199 inc VAT
16Mb 60ns Fast RAM SIMM	(RAM 3286)	£999 inc VAT

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NEW LOW PRICES A1230-II ACCELERATOR

	0Mb RAM	1Mb RAM	4Mb RAM	4Mb RAM + FPU	8Mb RAM
40MHz 68030EC NO MMU	£229 inc VAT - UPG 1240	£249 inc VAT - UPG 1241	£429 inc VAT - UPG 1244	£529 inc VAT - UPG 1246	£629 inc VAT - UPG 1248
50MHz 68030 WITH MMU	£299 inc VAT - UPG 1500	£329 inc VAT - UPG 1510	£499 inc VAT - UPG 1540	£599 inc VAT - UPG 1545	£699 inc VAT - UPG 1580

EGS SPECTRUM 24-BIT GRAPHICS CARD

FOR A1500/A2000/A3000/A4000

TAKES YOUR AMIGA BEYOND AGA!

EGS Spectrum is the answer to all your 24-bit graphics card requirements. It is a high performance, high resolution, 24-bit board that will take any Amiga 1500, 2000, 3000 or 4000 beyond AGA! But the hardware is only half of the picture. Without quality software, your investment will be wasted. Not only does GVP's own award winning graphics application ImageFX fully support EGS Spectrum, but also, using a Workbench driver, nearly all existing Amiga Workbench compatible applications will also work on and support the EGS Spectrum system.

- *2Mb of On-Board Memory*
  2Mb gives higher resolutions & more colours (1600 x 1280)
- *Programmable Resolutions Up To an Amazing 1600 x 1280 - 800 x 600 in 24-bit*
- *Real-Time 24-bit Display and Graphics Operating System!*
- *High-Performance 24-bit EGS-Paint Package for Professional Painting and Photographic Editing*
- *Amiga-RGB Pass-Through so the Amiga and the EGS SPECTRUM can Share a Single Monitor*
- *Zorro II (16-bit) and Zorro-III (32-bit) AutoSensing for Maximum Performance*
- *Scan Rates Up To 80KHz*
- *80,000,000 Pixels/sec Pixel Display Speed (8-bit)*
- *Workbench driver to run Workbench directly on the EGS SPECTRUM Board, Freeing Up Valuable Chip RAM*
- *Hardware Blitter to Accelerate All GUI Operations, Including the Workbench Driver*
- *System Conforming Applications Can Use the EGS Screenmodes Directly from the Display Database*
- *EGS Requires Kickstart 2.04 or Higher*

2Mb VIDEO RAM
~~£399~~
£349
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G-FORCE 040 40MHz ACCELERATORS

FOR A3000/A4000

MAKE YOUR AMIGA THE FASTEST IN THE WORLD!

Never before has such a powerful processor been available for the Amiga! The G-Force 040 puts a 40MHz Motorola 040, plus built-in 40MHz 68882 FPU into your A4000 (030 or 040) and couples it with up to 32Mb of super fast 32-bit SIMM memory on the board. The Standard board comes with 4Mb RAM - see left for RAM upgrades.

To further increase memory from the maximum 32Mb available on the G-Force 040 card, add one of the two 96Mb memory expansion boards available - see left. These enable you to take your total memory up to an amazing 128Mb RAM, directly connected to this blazing processor.

For maximum performance, a second optional module will be available soon, for a full 32-bit SCSI2*FAST* interface, capable of data transfer speeds up to an amazing 10Mb per second!

RAM UPGRADES

The standard board has two GVP 32-bit SIMM sockets, one of which is populated with a 4Mb 60ns SIMM. Available options are:

8Mb	Add 1 x 4Mb SIMM	(RAM 3246)	£199 inc VAT
20Mb	Add 1 x 16Mb SIMM	(RAM 3286)	£999 inc VAT
32Mb	Remove 1 x 4Mb SIMM and Add 2 x 16Mb SIMMs	(2 x RAM 3286)	£1998 inc VAT

RAM BOARD UPGRADES

These optional cards have six GVP SIMM sockets to go up to an extra 96Mb. Add that to the maximum 32Mb on the board for a total maximum RAM of 128Mb.

G-FORCE 040 96Mb RAM BOARDS

4Mb POPULATED	£399 INC VAT - UPG 0874
16Mb POPULATED	£1199 INC VAT - UPG 0886

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- *40MHz 68040 Processor*
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- *Make your A4000/030 at least 12 Times Quicker*
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- *SCSI-II Fast Optional (Pricing TBC)*

G-FORCE 040
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FOR ALL AMIGAS

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- *AREXX Compatible*
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- *FREE Samples Disk*

DSS8+
~~£69~~
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VIDEO EFFECTS

FOR ALL AMIGAS WITH 3Mb RAM

CineMorph from GVP opens up the world of Morphing, the process of converting one image to another to create dazzling special effects. Currently very popular in music videos and feature films, morphing has become the fashionable video effect to use. Now with CineMorph you can create these stunning effects on your Amiga.

- *Supports the AGA Chipset*
- *Static or Full Motion Morphing*
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FOR ALL AMIGAS WITH 4Mb RAM

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GOLD 92%

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- *Load, Save and Convert to the Following Formats: ANIM, BMP, Clipboard, DCTV, DPIIE, GIF, HAM-E, ILBM, IMPULSE, JPEG, RENDITION, SCULPT, TARGA, TIFF AND MORE*
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CINEMORPH INCLUDED!
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ACCELERATORS

FOR AMIGA 1500 & 2000

FAST! 32-bit TECHNOLOGY

GVP offer a range of accelerators for the A1500/A2000 that outstrip the competition for speed and specifications.

G-FORCE ACCELERATORS	030 40MHz	040 33MHz
Speed MIPS*	12.1	30
Processor	68030EC	68040
Maths Co-Pro.	68882 included	68882 in 68040 processor
Std 32-bit RAM	4Mb	4Mb
Max 32-bit RAM	16Mb	64Mb
Extras	SCSI	SCSI Ser/Par
PRICE	£699 INC VAT - UPG 0430	£999 INC VAT - UPG 0740

*MIPS: Millions of instructions / second, a normal Amiga runs at .67 MIPS

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SHEFFIELD	Debenhams (3rd Floor), The Moor	0742 768611
SHEFFIELD	Debenhams - Open Sept '94, Meadowhall Centre	0742 568555
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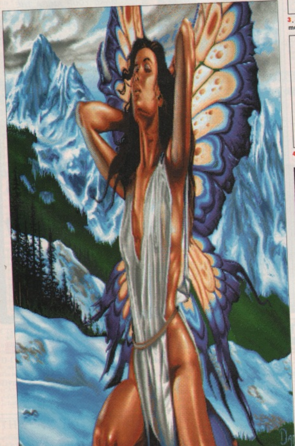
ART GALLERY

There's a certain ghoulish element in this month's batch of Amiga art. I don't know, it must be the water. (Eh?)

WINTER QUEEN

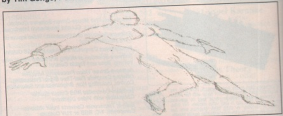
by Danny Geurtsen, Holland.



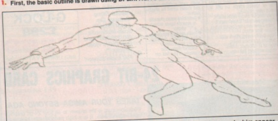
Hey now, this is art! – Ed.

HEAVENLY BODIES

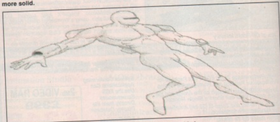
by Tim Genge, Portishead, Avon.



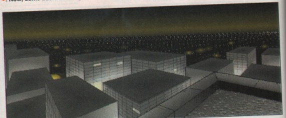
1. First, the basic outline is drawn using *DPaint* AGA's draw function.



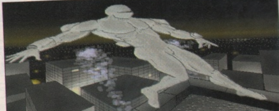
3. Once the line work is done, a couple of extras are added such as ribs to make him appear more solid.



4. Now, some basic shading and a backpack with engines is added.



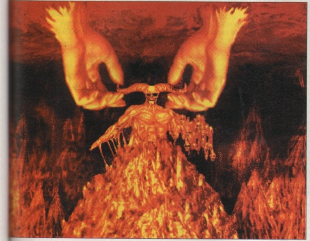
5. Then the backdrop is created using simple perspective with two vanishing points. The street lights are drawn using the sketch tool and line function. The buildings are textured using gradients fills and translucency set at 70% to make the window frames grade down. A gradient fill is made on the rooftop in the foreground and added later on using a gravel-like brush. The sky is another gradient fill.



6. Finally, Gorgon is lifted from the spare screen and pasted onto the skyline picture. The shading is adjusted to fit the street lights below. The backpack's thrust effects are achieved using an electric blue gradient and translucency at 70%.

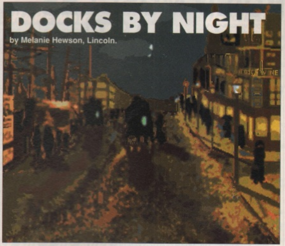
RAISING HELL

by Angelo Pliatsikas, Glasgow.



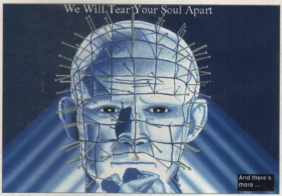
DOCKS BY NIGHT

by Melanie Hewson, Lincoln.



PINHEAD HORROR

by Martin R Edwards, South Glamorgan.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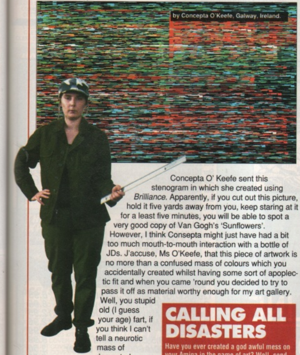
CATASTROPHE CORNER



by Concepta O'Keefe, Galway, Ireland.

Concepta O' Keefe sent this stenogram in which she created using *Brilliance*. Apparently, if you cut out this picture, hold it five yards away from you, keep staring at it for a least five minutes, you will be able to spot a very good copy of Van Gogh's 'Sunflowers'. However, I think Consepta might just have had a bit too much mouth-to-mouth interaction with a bottle of JDs. J'accuse, Ms O'Keefe, that this piece of artwork is no more than a confused mass of colours which you accidentally created whilst having some sort of apoplectic fit and when you came 'round you decided to try to pass it off as material worthy enough for my art gallery. Well, you stupid old (I guess your age) fart, if you think I can't tell a neurotic mass of demented colours from a sunflower – then you are sadly mistaken. Try to fool me eh? I'll show you. How? I don't know, I'll just think of something, OK.

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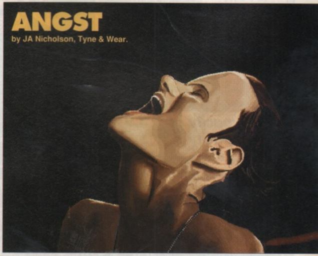
ANGST

by JA Nicholson, Tyne & Wear.



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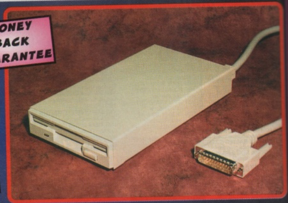

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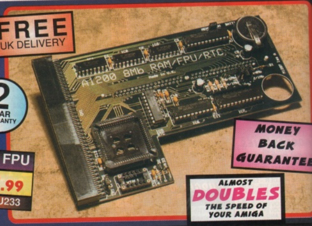

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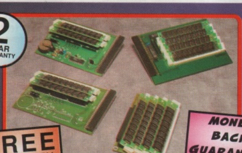

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AMIGA Workshop

ISSUE 23 NOVEMBER

The 'man having trouble with umbrella' sign can mean only one thing: you've made it to the Amiga Workshop section! Welcome to the most comprehensive tutorial section you'll ever find. Once again, we've extracted another cache of top tips from our band of highly experienced Amiga experts. There's Peter Lee's famous animation series, Tony Horgan's inventive Sound Lab, a beginners' guide to Comms and Internet, and loads more besides!

Regulars

150 Q & A

Which stands for Questions and Answers, but you knew that didn't you? No? Oh well, you see it's the part where you write in with questions about the Amiga and we answer them. Yes, that's it, our Andy and John are like a pair of technical agony aunts. Now I want you t promise you'll turn to page 150. Will you do that for me luvvy? Will you?

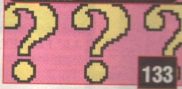
158 BACKCHAT

Talk is cheap – about 25p in fact. That's all it costs you to put your opinions on paper and in the post to CU AMIGA. The postbag has been brimming over as usual, with all your Amiga-related opinions. This month we've got a right barrel of fish for you.

162 POINTS OF VIEW

André Digard stirred up a bit of controversy with his opinions on violent games. This month we have a response from Robert Whelan, giving his version of the big game censorship debate with the benefit of a lot of important-looking letters after his name.

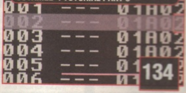
BUYERS' GUIDE



133

Computer shows are full of bargains, but how can you separate the real deals from the rip-offs? Andy Leaning has some tips on how to get the best bargains and how to avoid the cowboys selling 'too good to be true' software at knock down prices.

OCTAMED 4 TUTORIAL PART 6

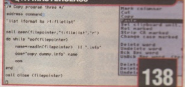


```
001  ---  01A02
002  ---  01A02
003  ---  01A02
004  ---  01A02
005  ---  01
006  ---  01
```

134

The final part in our extensive *OctaMED 4* tutorial continues on from last month's guide to the effect commands. This is just as relevant to those using version 5, as all the commands are identical. Only problem is, poor Tony's all choked up about having to wave goodbye to *OctaMED*.

Q+A MASTERCLASS



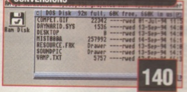
```
/* Copy program three */
address command
"list lformat %s >t:filelist"

call open(filepointer,"t:filelist","r")
do while ~eof(filepointer)
    name=readln(filepointer) || ".info"
    com="copy dummy.info" name
    com
end
call close (filepointer)
```

138

Icons are the key to an effective Workbench, but they're not quite as simple as they look (a bit like Tony Dillon). John Kennedy is on hand with all you need to know to get your whole Workbench completely iconified. This month he branches into the wonders of *Arexx*.

CONVERSIONS



```
DOS Disk  92% full, 60K free, 660K in us
COMPET.GIF         22342 ----rwed 01-Jul-94 11:5
DAYNARID.SYS        1536 ----rwed 13-Sep-94 14:0
DESKTOP                0 ----rwed 13-Sep-94 14:0
MIST000A          257992 ----rwed 14-Sep-94 16:1
RESOURCE.FRK      Drawer ----rwed 13-Sep-94 14:0
SOUNDPIC          Drawer ----rwed 13-Sep-94 14:1
VAMP.TXT            5757 ----rwed
```

140

No, not religious conversions. So put down your sack cloth and ashes. Andy Leaning begins the first of a new series showing you how your Amiga can cash in other non-Amiga programs. This month, he explores how you can muscle in on PC graphics, fonts and clip art.

PETER LEE'S ANIMATION MASTERCLASS

SMOKE
KILLS

142

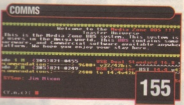
With more tricks up his sleeve than Paul Daniels, it's Peter Lee with another slap-up feed of animation tips. As usual, all the techniques are explained in detail for both *DPaint* and *Brilliance* users. This month, Peter's using drink and nicotine as his subjects.

COMMON QUESTIONS

154

John Kennedy tackles a new stack of the most commonly asked Amiga questions. Graphics are flavour of the month this time around so if you've ever wondered how to record graphics on to video tape, what Akiko stands for or what an IFF is then turn to page 138 for the answers.

COMMS



```
                 Welcome to the Media Zone BBS !!!
                        Toaster Universe
This is the Media Zone BBS system. This system is
 users in the Amiga world. This BBS contains some
areware, and Commercial software available anywher
latform. We hope you enjoy your stay here.

de 1 M  (305)821-0455       USR Dual Standard 16.8
commendation:------> 9600+ v32/42bis
de 2 M  (305)821-0249       USR Courier HST 14.4 v4
commendations:-----> 2400 to 14.4v42b
SYSop: Jim Mixon

(Y,n,c): 
```

155

We're going back to basics with Comms this month, for the benefit of those who got lost after reading the last few issues. With more than a little style and panache Peter Fitzpatrick gives some advice on getting up and running on the global highway. Take it away Pete.

TONY HORGAN'S SOUND LAB

156

Plink-plonk, wakka-wakka chug-chug phweep! Sounds like Tony Horgan approaching with this month's Sound Lab. Apparently it's all about getting your music modules as small as possible, with loads of ways to save memory without compromising your songs.

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Limited Quantity! **Hewlett-Packard Deskjet 550C Colour**	£370.13
Hewlett-Packard Deskjet 560C Colour	£427.70
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Star LC24-200C Colour printer	£175
Panasonic KX-P2123 Colour printer	£15
Citizen Swift 200 Colour printer	£15
Epson LQ100 printer (new)	£14
HP DeskJet 500 Colour inkjet printer	£19
HP DeskJet 560 Colour inkjet printer	£44

All items are clearance lines or shop soiled/seco
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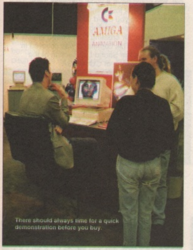
BUYERS GUIDE

PART 4

THE CU AMIGA GUIDE TO HAPPY BUYING

Andy Leaning, the sage of Amiga shopping, advises you how to go about bargain hunting at computer shows.



There should always time for a quick demonstration before you buy.

In the run up to Christmas there will no doubt be several shows where you'll be able to find the latest software and hot Amiga wares at 'never-to-be-repeated blockbuster prices'. However, can you be really sure that the guy flogging *DPaint 5* for a fiver is the genuine article and if he has a bona fide company will it be around in the future if you run into any problems? Also, how can you be sure that the goods you are purchasing are legitimate and in proper working order?

Well, first of all, if you do see *DPaint 5* for a fiver, let Electronic Arts know, they'll no doubt be interested in catching up with the trickster who is ripping their latest program off.

Take time to talk to the staff before deciding on purchasing a product.

Secondly follow the advice below, it's from a seasoned veteran who has seen more than one buck go down the drain on a dud end-of-show special offer.

1. Use magazine Buyers' Guides and take note of the various companies mentioned in them and any information that is provided about them.
2. When you are at the show be careful not to be too heavily swayed by flash company presentation on retailer stands. Don't ignore the smaller stands that are not decked out with all sorts of gimmicky attire, you may actually get a better deal from these.
3. Always check to see if the company will accept credit card payment. If they do, it is a reasonable indicator that they are a reputable firm.
4. Receipts, invoices, and guarantee documents are also good indicators of a 'proper' company. So look around for signs of this type of paperwork.
5. Also, if possible, ask the sales staff something about the product – even a little knowledge is a good sign.
6. Always take an issue of CU AMIGA along, and see if they're an advertiser. This is the surest way to ensure that they are not just a one-show wonder. However, if you've never heard of the company before you could also ask a sales representative something about them – where are they based, what other products they stock, how long they've been trading etc. A word of warning, though, remember that if the show is busy the staff won't have time for a lot of questions.

AMIGA ART CORNER

Make sure you visit all the stands at any show – whether they are large or small.

TOO GOOD TO BE TRUE

If a product is selling at an unbelievably reduced price, say more than 25% off retail, you should try checking a few facts. Is it for instance the current version? If not can you upgrade easily for a reasonable price? Is it the complete package (and not a demo or upgrade version), are manuals included, and will it work on your particular Amiga (ie only compatible with Workbench 1.3 when you have 3.0 etc). It's very easy to buy a package without checking all the facts because the price is so good only to find out when you get it home it won't work with system.

If you buy something as the complete product and it's not, you have rights under consumer law. However, watch out for the words 'sold as seen' or other statements to that effect. This means that you are paying for what you see, and you have little protection should the package prove to be incomplete. You normally see these signs at auctions.

WHAT TO WATCH OUT FOR!

Finally, when buying products at greatly reduced prices it's easy to be swayed by the price and not think before buying it. If you see something that looks like fantastic value don't rush in and buy, but wait and then consider the following :

1) Do you really want it anyway? It may be reduced by £300 but do you actually need it?
2) Will it work on your Amiga? Check for Workbench compatibility limitations, memory requirements, etc.
3) Is everything needed included? Make sure you get the full program, manuals, and dongles (if any).
4) Is it the current version, if not can you upgrade for a reasonable price?
5) And lastly, what's the guarantee, what happens if it goes wrong etc. CU

OctaMED 4

PART 6

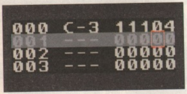
The final instalment of our guide to OctaMED's commands is about to kick off. Continuing on from last month's look at commands, Tony Horgan is your commentator for the next two pages.

For an explanation of how the command system works in *OctaMED*, consult the October 94 issue of CU Amiga, or take a look at the Commands document on the *OctaMED 4* coverdisk from the May 94 issue of CU AMIGA. Right then, on with the commands ...

SLIDE PITCH UP (ONCE) 11

Equivalent to *Protracker* command E1x

Slides the pitch up. This only works when you put the command on the same line that the sample is cued from. The value for this command is the difference in the 'period' value. For example, the note C-3 is equivalent to the period value of 214. To play a slightly pitched up version of C-3, you could enter the command as below.



```
000 C-3 11104
001 --- 00000
002 --- 00000
003 --- 00000
```

In this example, a value of 04 is used to play the note at a period of 210 instead of 214. 214 minus the value of 04 equals 210. Remember, lower period values give higher playback pitches.

SLIDE DOWN (ONCE) 12

Works just the same as the previous command, but the value is added to the period, rather than taken away.

VIBRATO 14

***Protracker* compatible**

This is almost the same as the 04 vibrato command (explained last month), but the depth value is halved, to give finer control. The first digit of the value sets the speed of the vibrato, while the second sets the depth. To sustain the effect, insert more vibrato commands (with appropriate values) in the lines after the sample is triggered.

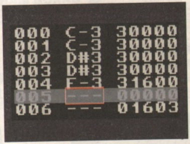
SET FINETUNE 15

This can be used to override the finetune setting in the INST window. If the instrument has no finetune setting, then you can define a one-off retune with this. To set a finetune level between one and seven, enter 00 to 07 as the value. Negative numbers need to be expressed as below:

-1 = FF
-2 = FE
-3 = FD
-4 = FC
-5 = FB
-6 = FA
-7 = F9
-8 = F8

LOOP 16

This allows you to set up loops within blocks. The first instance of the 16 command (entered as 1600) sets the start point for the loop. The second instance sets the number of loops, and is the end point for the loop. It's the same as the E6x command in *Protracker*. For example, at line 004 in the above example, the start of the loop is set. Line 006 sets the end of the loop, and tells the block to loop from lines 004 to 006 three times. Once it has done that, it continues on through the block as normal. You cannot nest loops (no loops within loops).



```
000 C-3 30000
001 C-3 30000
002 D#3 30000
003 D#3 30000
004 F-3 31600
005 --- 00000
006 --- 01603
```

STOP NOTE 18

This cuts the note by turning the volume of the instrument to zero, at the timing pulse specified by the value. Lower values give a sharper cut-off. It's the same as the *Protracker* command ECx and similar to the command 08, which achieves much the same thing by actually turning the note off. This also works with MIDI.

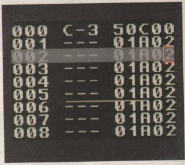
SAMPLE OFFSET 19

My favourite command! This lets you play a sample, starting from any point along the sample wave, instead of playing the sample from the beginning. This has many uses – the more you experiment, the more you'll discover. For example, you could have a vocal that says 'Give me a beat'. You might just want to use the 'beat' part sometimes, so you could use the 19 command to trigger the sample starting from that point. It's also excellent for creating filter sweep effects with long samples. This command was covered in more detail in the Sound Lab section of the November 93 issue of CU AMIGA.

The value sets the sample offset in steps of 256 bytes ($100 hex). If you want to start the sample at a precise point, go into the sample editor, find the part you need, and click on it with the right mouse button. This sets a range at the point you clicked on. The start point of the range will appear in the RNGSTART box. Divide this number by 256, and you have the number to insert after the 19 command. Simple eh?

SLIDE VOLUME UP ONCE 1A

This slides the volume up to the full volume (if sustained long enough) from the default volume of the instrument, or the volume previously set with the 0C command. To continue the slide, subsequent 1A commands must be placed on the lines following the note. The value defines the speed of the slide, with lower figures giving a faster slide. Handy for fading in sounds. It's the same as *Protracker*'s EAx command.



```
000 C-3 50C00
001 --- 01A02
002 --- 01A02
003 --- 01A02
004 --- 01A02
005 --- 01A02
006 --- 01A02
007 --- 01A02
008 --- 01A02
```

SLIDE VOLUME DOWN ONCE 1D

As above, but slide the volume down to zero.

JUMP TO NEXT BLOCK 1D

This causes a jump to a specified line in the next block in the play sequence list. The value is the line in the next block to which it will jump (this must be specified in hex). It's the same as *Protracker*'s D command.

NOTE DELAY & RETRIGGER 1F

The first digit of the value specifies the delay in timing pulses, the second specifies the retrigger timing.

MIDI COMMANDS

Some of the main commands work with MIDI, but the following commands are specific to MIDI instruments.

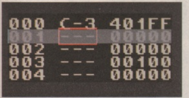
CONTROLLER VALUE 00

See command 05 for a description of this command.

PITCH BENDER UP 01

Turns the pitch bender up eight times the value on each timing pulse. Ranges of pitch bend wheels vary from one MIDI instrument to another, so you'll need to experiment with the settings.

When a new note is played, the pitch bender is not automatically reset, so you need to do this with an 0100 command once you want the pitch bending to stop. In the following example, the pitch is bent up very quickly, and then reset.



```
000 C-3 401FF
001 --- 00000
002 --- 00000
003 --- 00100
004 --- 00000
```

PITCHBENDER DOWN 02

As above, but bends the pitch down.

SET PITCH BENDER 03

Instead of sliding the pitch bender like the two previous commands, this sets the pitch bend value to an absolute figure.

This has to be expressed as a signed hex number. 80 (-7F) is the smallest value, 00 is the centre position, and 7F is the largest possible value available.

MODULATION WHEEL 04

Sets the amount of modulation on the current channel. The value can be from 00 to 7F, where 00 gives no modulation, and 7F gives maximum modulation. Values from 80 to FF are not used.

CONTROLLER NUMBER 05

This is used with Command 0 to change any controller (MIDI command B x cc vv, where cc = controller number, vv = value).

Set the controller number you want to change with command 05. Then select the value with command 00. Subsequent uses of command 00 will affect the controller previously defined with the 05 command.

HOLD 08

This command must be on the same line as the note. You only need to use the second digit of the value for this one, which defines the hold value for the note.

This overrides and hold settings you may have defined in the INST window. Decay settings are then ignored.

SEND MIDI MESSAGE 10

This is used to send MIDI messages previously entered in the MIDI message editor. The value is the number of the MIDI message you want to send, except that a value of zero send message 1, and a value of 1 sends message 2 and so on.

MIDI message data has priority over the MIDI note data. MIDI timing pulses are sent immediately, even if a message dump is going on.

POLYPHONIC AFTERTOUCH 0A

Changes the polyphonic aftertouch for the most recent note. The value should be from 00 to 7F.

NOTE VELOCITY 0C

Overrides the default volume (velocity of the instrument. This command must be on the same line as the note.

Use decimal volumes (unless volume is set to hex) from 0 to 64 (these are converted to velocity settings from 0 to 127)

CHANNEL PRESSURE 0D

Sends a channel pressure (channel aftertouch) message on the most recently used channel. The value can range from 00 to 7F.

PAN CONTROL 0E

Sets the stereo position of the sound. The value can range from 00 to 7F. 00 is the far left position, 3F is bang in the middle, and 7F is the far right position.

MISCELLANEOUS 0F

FFA sends a "hold pedal on" command.
FFB sends a "hold pedal off" command.

CHANGE MIDI PRESET 1C

Changes the MIDI preset number of the current instrument. Use with caution in multi-modules.

COMMON QUESTIONS

Here are some of the most commonly asked questions regarding *OctaMED 4*.

Q I've been trying to use *OctaMED 4* for MIDI sequencing, but whenever I connect my synth to it, set up a MIDI instrument, and press one of the keys on the synth keyboard, I get one noise repeating very quickly, until the whole thing locks up. Do I have a faulty copy?

A No. The problem is due to a loop occurring between your synth and your Amiga. In this case, when you press a key on your synth keyboard, the note data is sent into the Amiga, sent back out again by *OctaMED*, and then sent back to the computer once more in a perpetual cycle, until it becomes too much for the system to handle. This is because you have the SEND OUT button activated on the MIDI panel. The solution is simple: turn off the SEND OUT button.

Q When I use eight tracks, the text for the columns gets smaller, but I can just about read it on my TV.

However, when I choose more than eight tracks, it gets ludicrously tiny, and just turns into one big blur. This is annoying, as it's stopping me from using my MIDI gear to its full potential. What can I do?

A Click the NO16 button from the MISC panel. This stands for 'no 16 tracks', and will limit the maximum number of visible tracks to eight. You can still have your 12 or 16 tracks in a block.

Q I have a 1.3 Amiga 500 with a hard drive connected, which holds my extensive sample collection. When ever I enter a new directory (such as drumloops for example), it can take rather a long time to read the directory listing.

This isn't a major hassle, but is nonetheless annoying when you just want to dip and take a look. Can I speed this up in any way?

A There's a simple solution to this. Click on the directory you want to enter, and they click on the tracker editor button in the very top-right corner of the screen. This gets rid of the directory window, and speeds up the process because the names of the files do not have to be displayed as they are read from the hard drive.

Q I have an A1200. When I enable the Chord mode in *OctaMED*, and try to enter a three or four note chord, I only ever get one of the notes appearing. What's going on?

A Unfortunately, I don't have a neat solution for this one. The A1200 has trouble reading more than one key from the same row at the same time.

If you try entering a chord using notes from different rows on the keyboard, you'll find it works fine. You'll find this is the case with most, if not all programs running on the A1200.

Q I've seen *OctaMED* songs that display a message when they load, either in the *OctaMED* program or through the *OctaMED* Player on Workbench. How is this done?

A Click on the TRANS button, and you'll see a long horizontal box marked TEXT. Click in the box, and then enter the message you want to appear when the song loads. Your message can be a bit longer than the size of the box.

Q I've written a track that starts with a big bassline, before leading into the main part with drums, synths and stuff.

The trouble is that the bass sound has a bit of hiss on it, which is only noticeable when there are no other sounds. I've filtered the sound quite a lot in the sample editor, but it loses its character if I filter it too much. Help!

A Try using the Amiga's built-in low-pass filter. This takes off some of the treble from all four channels, and can be turned on and off with the FF8 (off) and FF9 (on) commands.

Turn the filter on at the start of the track, and turn it off again when the higher sounds come in.

Q Which insect makes up the staple diet of the rare Peruvian Tree Skunk?

A Oops sorry, I think you're in the wrong magazine.

THAT'S YOUR LOT!

That concludes our *OctaMED 4* tutorial series. I'd like to say you've been a lovely audience, but ... no, honestly, I've loved every minute of it, and in the words of Kylie "If I had to do it all again, I wouldn't change a single thing ..."

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MASTERCLASS

Sometimes even AmigaDOS isn't enough – John Kennedy moves onto ARexx.

The idea for this month's Masterclass came from a letter from Duncan Strand from Leicester who ran into problems whilst trying to organise his sound sample disks which are packed full of samples without any icons. Duncan had been experimenting with AmigaDOS, trying to create multiple icons by performing variations with COPY and the pattern matching, however, this didn't work.

So what to do? Now it would be possible to write an AmigaDOS script to create all the files, but to be honest I'm not a big fan of writing cumbersome programs in AmigaDOS. I know there are big fans out there, but I'm not one of them. When I want to write a program, I want to use a programming language: not a series of DOS commands. Therefore, I recommend Duncan tries using *Arexx* instead. *ARexx* is the Amiga implementation of *Rexx*, a language which has been around for a bit. It's a little like AmigaDOS in that its programs are stored in plain text files, and there is no need to compile them first. Also, *ARexx* is an interpreted language, which makes it one of the simpler ones to use and it comes with all Amigas that have Workbench 2.04 and above.

STARTING AREXX

Before you can use any *ARexx* programs, you need to make sure the main *ARexx* interpreter program is present and running. The name of this program is *Rexxmast*, and you'll find it in the System drawer of the Workbench drawer. You can start it by clicking on it, or run it from the SHELL by entering *Rexxmast* and pressing return. If you want to make it run automatically every time you boot your computer (which is especially handy if you have a hard drive, when the overheads will be negligible) you should add it to the file called 'user-startup' in the s: directory. If this file doesn't already exist, you can create it by entering:

```
ed s:user-startup
```

at the Shell. If the file does already exist it will be loaded, and you'll be able to add more text. In either case, add the following:

```
run >nil: <nil: rexxmast
```

The '>nil:' and '<nil' parts will ensure that a new window isn't opened by *Rexxmast* when it starts, but you can leave them out if you so desire. If using the standard Commodore ED, remember to press ESC and then X to quit.

USING AREXX

To start an *ARexx* program, you use the RX command which has been lurking on your Workbench all this time. So to run an *ARexx* program called 'Test.rexx' (it is convention name it ending in rexx') you simply open a Shell and type:

```
rx test.rexx
```

or

```
rx test
```

as it will assume the .rexx extension if it is left out.

Now that's how we run a program, but how do we write one? In the same way we used ED to alter (or create) the user-startup file, we also create a file containing *ARexx* commands. At this point it is worth pointing out that ED is by all accounts an extremely primitive text editor, and one which you don't have to put up with. If your finances can't stretch to buying *Cygnus Ed* (CED), you can always get *GoldED* – a superb text editor which is available from many public domain libraries.

Writing *ARexx* programs isn't particularly difficult but you do need to know the relevant *ARexx* commands. Unfortunately, unless you have an A4000 you probably won't have the necessary documentation. However, there are several books on the subject, and I recommend the Abacus guide *Using ARexx on the Amiga* by Zamara and Sullivan, wholeheartedly.

I've listed a few of the most important *ARexx* commands in table 1 page 134, and I hope the construction of our example program serves to illustrate the grammar required by *ARexx*.

Another important point to realise is that *ARexx* can have many more commands than those in table 1. In fact, any program with an *ARexx* 'Port' will add its own commands. What do I mean by Port? Well, the Port is a special piece of programming included in the original program which makes available various features. Many commercial and public domain utilities will offer this facility and in this way *ARexx* can be used to link several programs together. For example, if both an image processing program and the software which controls a video digitiser have *ARexx* ports, it is possible to write a script that will get the digitiser to grab a frame and then pass it automatically to the image processor for further work. *ARexx* thus gives any program with a suitable port an extensive Macro facility and also allows it to truly make use of the Amiga's multitasking capabilities. Even now, the Mac and IBM-PC are only starting to wake up to the possibilities offered by such a system. The facility to create macros (in other words, the ability to pre-program a sequence of events) is terrific when a large number of similar operations need to be carried out.

Here then is a summary of what *ARexx* is good at:

1. Writing small stand-alone programs,
2. Using the *ARexx* port present in many programs to create macros and automate tedious processes,
3. Linking together several separate programs, making use of various features from each.

WRITING PROGRAMS

The first line of an *ARexx* program must start with a comment. This isn't just a good idea suggested by the designers of *Rexx*, but something which has to be done or the program won't work. Like C, comments are contained within /* and */ symbols.

Sometimes you'll see the *ARexx* word ADDRESS used. This specifies which other programs the *ARexx* system will look too for executing words. If, for example, you were writing a script that made use of ASDG's *The Art Department*, you would need to specify address 'adpro' in the *ARexx* program (the case of the port name is important). The only exception to this is when the *ARexx* program is executed not with the RX command, but from with the calling program (for example, *Art Department*) itself. It doesn't do any harm to keep the address line in.

Using the word COMMAND after address is another exception, and this time instructs *ARexx* to use AmigaDOS functions.

In any case, here is a small program to make sure that the *ARexx* system is working. Enter the following into a text file (typing it directly into the Shell will not work):

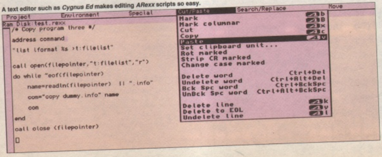
```
/* Test program one */

say "Hello, World"

do 10
say "*"
end
```

Now we come to creating the icons. The easiest way to do this is to create a dummy icon (I've called it dummy.info). A loop in the program then creates a host of new filenames using the loop counter to

A text editor such as *Cygnus Ed* makes editing *ARexx* scripts so easy.


Project
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Special
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Move
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Mark b
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Set clipboard unit...
Rot marked
Strip CR marked
Change case marked
Delete word Ctrl+Del
Undelete word Ctrl+Alt+Del
Bck Spc word Ctrl+BckSpc
UnBck Spc word Ctrl+Alt+BckSpc
Delete line k
Delete to EOL y
Undelete line l

```
/* Copy program three */

address command

"list lformat %s >t:filelist"

call open(filepointer,"t:filelist","r")

do while ~eof(filepointer)

    name=readln(filepointer)  || ".info"

    com="copy dummy.info" name

    com

end

call close (filepointer)
```

create the names, which will be sound1.info, sound2.info, sound3.info and so on. You will need to experiment with pathnames to suit your system.

```
/* Copy program one */

address command

do i=1 to 10

name="sound" || i || ".info"

com="copy dummy.info" name

com

end
```

The script is short and sweet, but it makes the assumption that Duncan's sound samples are already named sound1, sound2, sound3 to start with, which probably isn't the case.

What we need is an *ARexx* program that will create an icon for a file of any name, and here is how to do it. First of all we need to rewrite the script to make use of the ARG and WORD command.

ARG accepts a word or a list of words typed after the program name when it is started at the Shell. WORDS returns the number of separate words in a string of text, and WORD returns a particular word. See how simple *ARexx* programming is compared to the likes of C or BASIC?

Once we have a script that will create an icon from a given list of files, all we need is a way to easily get the list. Here's the *ARexx* script:

```
/* Copy program two */

address command

arg list_of_names

do i=1 to words(list_of_names)

name = word(list_of_names,i) ||
".info"
com="copy dummy.info" name
com

end
```

Now to get the names of all the sound samples into a text file, enter this at the Shell:

```
list lformat %n > ram:filelist
```

This performs a normal directory listing, but only with the file names, and then redirects the list into a file in the ram disk. Unfortunately we can't simply run the *ARexx* script using this list, like this:

```
rx copy.rexx <ram:filelist
```

as the indirection doesn't seem to work. Instead we have to adjust the script to open up the text of the filelist itself. This time the script also include the necessary list command built-in.

```
/* Copy program three */

address command

"list lformat %s >t:filelist"

call
open(filepointer,"t:filelist","r")

do while ~eof(filepointer)

name=readln(filepointer) || ".info"

com="copy dummy.info" name

com

end

call close (filepointer)
```

And that's it! This script will create a temporary list of all the files in the T: directory, and then go through them one by one, copying the dummy.info icon with a new name. This should give all the files in the directory an icon – problem solved.

AREXX WITH ADPRO

Although *ARexx* is a powerful pogramming language in its own right, it really comes into its own when you start to use it with other programs.

Art Department is one program that really benefits from its *ARexx* port. For example, here's a short program that will use *AdPro's* selector to list a group of files for converting into GIF format. This is especially useful when you need to process a batch of pictures but don't want to have to sit around doing each by hand.

```
ARexx script to automate turning IFFs
into GIFs.
 */

Getfiles '"Please Choose all the files
that need processing:"'

if RC=0 then

FileList=ADPro_Result

FileCount=Words(FileList)

Counter=1
Do While (Counter<=FileCount)

Filename=Word(FileList,Counter)

SFilename=Insert('.gif',Filename,Leng
th(Filename)-1)

LFormat 'IFF'

Load Filename
Execute

SFormat 'GFF'

Save SFilename "IMAGE"

Counter=Counter+1

end

exit
```

This script can easily be expanded to load or save different formats and add some processing in between. Remember that *ARexx* itself doesn't know how to load or save images – it just knows how to tell *The Art Department* how to do it.

Using *ARexx* it's possible to adapt many programs to behave more intelligently. For example, Comms users can write *ARexx* scripts to automate logging into Bulletin Boards if their terminal emulator program has an *ARexx* Port. *Music-X v2* users can write their own tools for editing notes and adding effects, and users of GVP's Genlock can automate fading and other effects in time to other programs (such as Bars and Pipes).

ARexx is one the Amiga's operating systems best features, learn how to use it, and you can save yourself a lot of time. For more information, check out the book recommended in the text, or access a BBS which takes the *Arexx* echomail. There are several help files in AmigaGuide format around, as well as some excellent *ARexx* programs and utilities – so ask your favourite Public Domain library.

COMMON AREXX COMMANDS

COMMAND	**SAY**	**DO\END**	**IF THEN ELSE**	**||**
FUNCTION	Displays text or the contents of a variable on screen.	Packets up several lines.	Conditional testing	Concatenates two strings, without spaces.

EXAMPLE	To see what difference quotes make, try the following:
	again=10
	say Hello World
	say "Hello, World"
	say Hello, World again
	say "Hello, World again"
		You can also create loops, like this:
		do 10
		say "Hello"
		end
		do i=1 to 10 by 2
		say i
		end
			Try This:
			if 1=1 then say "Phew, that was close"
			if x=19 then do
			say "Well I never"
			say "Good old X, eh?"
			end
			else
			say "too bad"
				string1 = Hello World
				string2 = Hello || World
				say string1
				say string2

CONVERSIONS

PART 1

In the first of a new series of articles Andy Leaning looks at ways in which you can adapt PC products for use on the Amiga. To start off he reveals how you can use the thousands of graphics and text files available for the PC.

The Archos A1200 CD-ROM drive will let you read PC CD discs.

Which computer is better – the PC or the Amiga? I started this argument with friends ten years ago and I'm still having it today. And now, like ten years ago, it is invariably an argument with PC owners who are too shortsighted to recognise that, yes, believe it or not, the Amiga has several advantages over their beloved machine.

One area, however, where PC owners can justifiably gloat about their superiority is the widespread availability of PC clipart, fonts and reference text files. Call up any PC PD library and you'll get a list of disks running into the thousands – containing high quality textures, clipart files, TrueType fonts, text files containing massive dictionaries or the classic works of the world's best loved authors (Charles Dickens, Jules Verne, Bram Stoker, Mary Shelley) and much more.

However, Amiga owners need no longer fret about lack of access to these vast libraries – there is a way of gaining access to all these PC files. Doing so can be surprisingly easy too, it's just a matter of knowing how – so settle down and take stock of what I have to say.

AND WE'RE OFF

The first obstacle to get over when using PC files on your Amiga is to actually get your machine to read 'alien' PC formatted disks. PC disks have a different structure to Amiga disks and unless you have a program which can interpret this PC structure you won't be able to access their coveted contents. Luckily there are a number of programs available that do just this.

Workbench 3 systems have an inbuilt routine which provides direct access to PC files. All you have to do is insert a PC disk in the drive and you'll be able to read the files automatically. Amigas with earlier Workbench versions will need a program such as CrossDos which enables your Amiga to read and copy from and to PC disks.

For CD-ROM owners it's even simpler to read PC discs. PC CD-ROMs will read in an Amiga CD-ROM drive without any problems, you don't even need conversion tools.

The Archos CD-ROM drive from Indi, for example, will allow you to read these discs on an A1200.

And we're off! Having set up the Amiga to read PC disks you can then start using the files. For text based files this is merely a matter of copying them to an Amiga disk and loading them into your word processor – simplicity itself. Load up *Final Writer*, chuck in the disk and you could have the complete text of Dracula at your finger tips – as if by magic.

For fonts it's slightly more involved. Most current fonts found on PCs are in a format called TrueType – the format MicroSoft Windows uses. Some Amiga programs can load these fonts directly, but most require fonts to be in a standard Amiga format.

To convert them you'll need a program such as SoftLogiks' *TypeSmith* (£118 from Emerald Creative and reviewed on page 94 of this very issue of CU AMIGA).

GRAPHICS

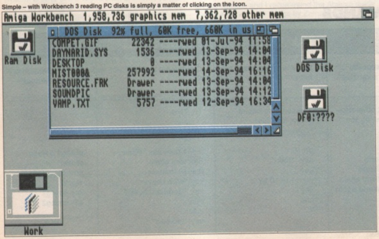
Images, clipart and textures can be trouble. There are numerous graphic file formats on the PC, such as TIFF, Giff, and PCX. Amiga programs, however, can generally only handle the IFF format. To convert from the various PC formats you'll need a program such as *Art Department* or *ImageFX*. These two packages can handle a vast variety of different file formats and are vital if you are serious about converting PC files.

Other programs worth having for converting files are LHA (available from most PD libraries) which is a compression and decompression tool, and a Directory Utility such as the *Dir Works* sample given away with the September issue of CU AMIGA to help manage lots of files at once.

With this collection of programs you should be able to convert most graphics and font files from PC disks and be able to read and use them on your Amiga.

Next month we'll look at adapting PC hardware to work on your Amiga. CU

Simple – with Workbench 3 reading PC disks is simply a matter of clicking on the icon.



```
Amiga Workbench  1,958,736 graphics mem  7,362,728 other mem
DOS Disk  92% full, 60K free, 660K in us
COMPET.GIF       22342 ----rwed 01-Jul-94 11:58
DAYNARID.SYS      1536 ----rwed 13-Sep-94 14:04
DESKTOP              0 ----rwed 13-Sep-94 14:04
MIST000&        257992 ----rwed 14-Sep-94 16:16
RESOURCE.FRK    Drawer ----rwed 13-Sep-94 14:04
SOUNDPIC        Drawer ----rwed 13-Sep-94 14:12
VAMP.TXT          5757 ----rwed 12-Sep-94 16:34
```

WHAT YOU NEED

For converting PC files you'll need the following programs.

A DISK CONVERSION PROGRAM
Supplied free with Workbench 3, for pre version 3 Workbench systems use *CrossDos*, Emerald Creative 081-715 8866.

FOR CONVERTING FONTS
use *TypeSmith*, Emerald Creative
tel: 081-715 8866.

FOR GRAPHICS
***Art Department* or *ImageFX*, try Silica on 081-309 1111.**

FOR READING PC CD-ROM DISCS
use the Archos CD-ROM drive from Indi
tel: 0543 419999.

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DIY ANIMATION

PART 5

More marvels of animation magic are revealed in this month's tutorial, as Peter Lee conjures up detailed professional tricks of the trade to help get things moving on your Amiga.

As we've progressed from humble beginnings, our techniques have become ever more sophisticated. There finally comes a watershed moment when you need to combine the animation skills we've been discussing with drawing techniques. I've included some drawing techniques as and when needed, but this month sees a marked increase in graphic intensity.

It's nothing you can't handle though. And while each tutorial continues to outline in easy stages how to achieve an effect, you get the added benefit of picking up drawing expertise. So, if you really want to grow as an Amiga artist and animator, stick with me; the road may seem long, but it is paved with gold ...

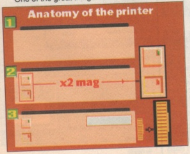
TUTORIAL 1

DPAINT:

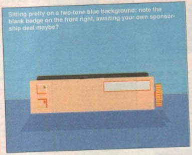
HARD COPY, SOFT SELL

Object: To simulate a real-world printer doing its job, and passing on a message to the viewer.
Mode: *DPaint*, 32 colour, low res; 20 frames

One of the great things about this sequence is the fact that only a small percentage of the screen changes from frame to frame; this means that you can get quite a lengthy animation, showing several pages of information being 'printed'. And like most other tutorials, once you have the skeleton of the effect, you can save it and just add new text as the need arises.

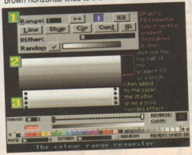

Anatomy of the printer

1 Although we are using the default palette which opens each time you start *DPaint*, we need to edit one colour because there isn't one creamy enough to represent the standard printer colour. So call up the Colour editor (right click on the foreground/background colour display). Choose the first green, and using the sliders on the RGB scale create the following values: R 255, G 193, B 97. Click on the RGB button on the far left to toggle the settings to Hue, Saturation and Value (HSV) and ensure the settings are: S 61, V 100 and H 35. You should now have a fawny colour in place of the green.


Sitting pretty on a two-tone blue background; note the blank badge on the front right, awaiting your own sponsorship deal maybe?

2 In the interests of keeping drawings simple and functional, we shall create the printer from filled rectangles. The body of the printer is a filled oblong using the fawn colour we just defined. The smoked plastic lid is a thin rectangle of dark grey, with a single line highlight running across the top in mid grey. The handle is a vertical rectangle using a yellowy fawn.

3 To add a little finesse to this plain object, you can suggest curved edges by simply erasing a single pixel from each of the four corners. Add darker brown horizontal lines to the manual knob to give it a curled effect. Draw a light-blue horizontal line 3cm above the halfway point on the screen, and fill the top half with light blue, and the lower half with mid blue.

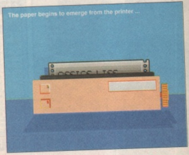


DPaint's Fill requester Select vertical gradient (highlighted in blue)

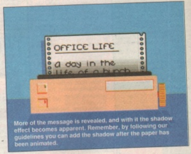
Just use the top half of the gradient fill as a brush

When added to the paper, the shadow gives a good, rounded effect

The colour range requester


The paper begins to emerge from the printer ...

4 Using the filled polygon tool (the one which uses straight lines), draw out the shape of the printer's shadow in dark blue. Notice how the perspective is suggested with the lines of the shadow receding from the viewer. Once you are happy with the printer – maybe you'd like to put a brand name on there for added realism – call up the Anim/Frames/Set # requester, and enter 20, to duplicate your image over 19 more frames.

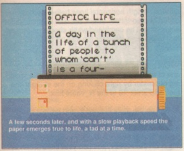


More of the message is revealed, and with it the shadow effect becomes apparent. Remember, by following our guidelines you can add the shadow after the paper has been animated.

5 It's time to create the fanfold paper now, so switch to the spare screen (key j); select as the background colour the light blue you used for the top half fill on the main screen, and clear the screen. Using white, draw out a rectangular sheet of paper.

6 The perforation effect is achieved using the line tool and the medium round brush. Right click on the line tool, and enter '8' in the Every Nth dot slot; click on the Every Nth dot button, and return to your drawing. With the line tool selected, and your drawing colour the same light blue you used to clear the screen with, draw out a vertical line up each edge of the sheet. You will see the holes being created automatically.

7 Cut out the page as a brush, and with black as your drawing colour, outline the sheet by pressing

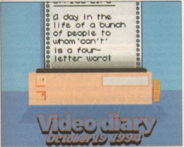

OFFICE LIFE
a day in the
life of a bunch
of people to
whom 'can't'
is a four-

A few seconds later, and with a slow playback speed the paper emerges true to life, a tad at a time.

the key 'o' before pasting back down on screen. This dark edge will make the paper stand out better during a playback of the sequence.

9 You can add your text to the paper now. I used the Workbench font Opal at 12pt, which just about looks like a dot-matrix font. Notice the shadow on the left of the paper? That adds a nice touch to the animation, and is simply a mid-blue thin rectangle drawn after the outlining procedure. Cut out the paper and its shadow, and switch back to frame one of the printer animation.

10 The effect calls for the paper to gradually appear out of the top of the printer, and this is easily achieved by using *DPaint*'s Stencil function and the Move requester together. We need to protect the picture from being over-written by the paper as it moves up screen, so call up the Stencil requester (Effect\Stencil\Make). Click on the light blue we used to fill the top half of the screen, then click on Invert, to protect every colour except that one. Click on Make.


a day in the
life of a bunch
of people to
whom 'can't'
is a four-
letter word!

Video diary
October 19 1994

The final scene. Note the text which has been added to create an introduction for a video diary. You can duplicate this final frame as many times as your RAM will allow, to have it remain on screen so people get a chance to read your output.

11 Place your paper brush in the correct position just below the top of the printer, so none of it is visible (thanks to the stencil we just made). Right click the mouse, then press the key 'u'. This registers the start position for the brush, then undoes the painting which is a necessary part of it. Call up the Move requester (keyboard M), and in the Y distance box, enter a figure between 140 and 150. Click on Preview, and see your page ghosted up screen. Using trial and error to tweak this Y value, work out the right distance to move your brush so it does not fly out of the printer – we want the last frames to show it still in there.

TIP: A really accurate way to find out the distance you need for the Move requester is to set 'Co-ord On' from Preferences, then paint your brush from start to finish. The coordinates zero as you start to paint, so you can see how many pixels you've travelled when you take your finger off the button. Just Undo this reference painting and go back to the Move requester.

12 When you have gotten the distance right, make sure that the figure 20 is in the Number of frames box, and click on Draw to tell *DPaint* to draw the paper throughout the sequence.

13 Play back the animation now – the slower the better, to simulate a real printer at work. It's OK, but you can add just one more tweak to add to the realism – a curving shadow at the base of the paper. Turn off the stencil. Call up the Range requester (Colour\Range menu), and place dark grey at the right-hand end of the range bar, and white at the opposite end. This is range 1. Click on OK.

14 Call up the Fill requester (right click on the Fill tool), and click on the vertical fill icon (arrows pointing up and down), and on the Random box, with the dither slider set all the way to the left. Swop to the Spare screen and clear it. Click on the solid rectangle tool, and draw out a rectangle across the screen and around 6cm deep.

15 Cut out the top two thirds of the resulting gradient fill as a brush (the lower reaches are too dark), and switch back to frame one of the animation. Call up the Stencil requester, and protect every colour except the white used on the paper. Position the bottom of your shadow brush at the base of the page where it pops out of the printer, and register the position.

16 Call up the move requester, and Clear all settings; click on Draw, and the shadow brush will remain stationary and paint over the page as it appears from the printer, leaving the text visible but giving a curving effect well worth having.

IDEAS: Any object appearing from out of nowhere can be created by using Stencilling – cars or people appearing from behind buildings or scenery, or planes emerging from clouds.

TUTORIAL 2

DPAINT:

ICE COLD SUNSET

Object: A tranquil, looping sequence showing a dreamy pink sunset with a taste of luxury.
Mode: *DPaint*, 32 colour, low res: 10 frames

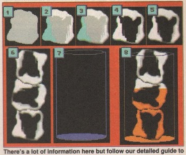
While this animation is pleasant and effective, the real bonus in following this tutorial is the chance to pick up plenty of drawing tips.

The main thing you may be interested in is the representation of ice, which is notoriously difficult to capture using traditional artists' materials, let alone computer art. The animation technique itself takes very little time, and should be a good weapon in your armoury in any number of reflective sequences.

THE ICE

Opaque, semi-transparent, reflective ... if ever a substance was guaranteed to stretch your capabilities, then ice is it. But the first thing to fix in your mind is that we're in the business of 'suggesting' things rather than trying to take a photograph. So we can distil something like ice into shape and colour. Well, what are we waiting for ?

1 If you look at the illustration, you'll see how the ice cube progresses from a simple roughly-drawn polygon to something not un-connected with an ice cube. Draw out the shape of the ice using a mid grey tone and the freehand fill tool. Add a light blue filled shape to the left, and light grey shapes at the top and right, as in stage two.



There's a lot of information here but follow our detailed guide to get the most out of a stunning visual. Note how solid blocks of colour become realistic ice cubes, and the addition of a tinted rectangle into a hollow 'tumbler' gives the flavour of liquid. Lipsmakin' or what?

2 From the Mode menu, select Smooth, and using a medium-sized round brush, trace around the edges of the ice cube, and also where colours border inside it. The light blue was just there to give an icy-blue tint to the highlight, so using the Fill tool, fill the blue area with a light grey, and using black, fill the heart of the ice chunk (Stage four). The final stage is now achieved by again using the Smoothing option on the remaining colour edges, to blur them into one another (Stage five).

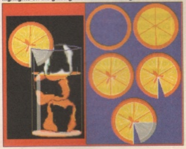
3 That's it – an ice cube. Surprisingly, the hollow-looking centre works very well, giving the impression that the outside edges of the ice are melting, and the centre is transparent. For our purposes we need three chunks, so cut out the ice as a brush, and create a three-cube stack. Note how cubes two and three have been rotated 90 degrees using the z key, to make it look like three random pieces of ice (Stage six).

THE TUMBLER

Again, drawing glass is about fudging reality rather than capturing it. And to do that, all we need is an outline to the tumbler, and maybe a reflective highlight or two.

1 Referring to the illustration again, you can see the tumbler is made of two dark blue vertical lines, and an arc for the rim and base; draw the parallel lines first, then using the Arc tool, draw the curves. To give the object a 3D look, add arcs curving the

On the right you can see the stages in growth of a slice of lemon. From a hollow circle to a slice pre-shadowed for insertion 'behind' the glass of the tumbler. Note too how transparent highlights on the glass give it a curved feeling.



»

» other way to show the far edge of the rim, and the other side of the base. Fill the oval that was created on the base with the same blue as used for the glass drawing to suggest thickness.

2 Once the glass is complete, cut out the ice cubes as a brush, and place them 'inside' the tumbler. You will have to do a little manual touching up of the blue on the rim where the ice brush has overpainted it.

3 The next stage is to add some liquid; the colour used can represent iced tea, cola or whatever takes your fancy. It's achieved by activating *DPaint*'s Tint function from the Effect/Process menu. With mid-brown chosen as the drawing colour and using the filled rectangle tool, draw out a box from just above half-way on the glass to the base. You will see the ice taking on the colour of the 'liquid' you just poured! Again, you will need a little manual painting to the edges of the base area to colour in the rounded corners missed by the rectangle. Turn off the Tint option.

4 Similarly, you will have to hand-paint the surface of the liquid, using the arc tool, giving it a lighter brown colour to that used for the tint. It all adds to the realism.

5 On the illustrations, you should be able to see the white reflective streak running down the left-hand edge of the glass. This is created using white as the drawing colour, and setting Translucency to 50% from the Effect/translucency menu. Use a broad round brush and the straight line tool; as you can see, the ice is still visible through the streak. Add a curved highlight around the base, near the bottom of the glass using the same brush and set-up to emulate the tumbler's roundness.

THE LEMON

The finishing touch to the glass is the slice of lemon – a two-minute job which adds a nice touch to the scene.

1 Using a large round brush and mid-brown, draw out a 4cm circle. Fill with bright yellow, and divide carelessly into segments using the mid-brown and single-pixel brush. Add a few streaks of freehand highlights to the segments using white, and a pip or two using the mid brown and filled freehand tool. Black out a segment at the bottom, so it can slip onto the tumbler's edge.

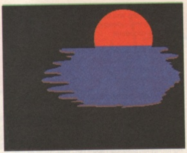
2 To simulate the lemon as it would look through glass, use mid blue as your fill colour, and turn Translucency on again. Using the filled polygon tool, draw out the quarter shape as illustrated; the yellow will now turn grey.

3 Cut out the lemon, and place it on the rim of the glass in such a way that the greyed section looks like it is 'inside' the glass. Save the glass, ice and lemon as a brush (to be loaded in later) and let's move on to the next stage.

THE SUNSET

1 Draw out a pink rectangle at the top of the screen, across the full width and coming a third of the way down screen. Draw out a large red filled circle to the right of centre, and erase the portion of the circle which falls below where the pink sky ends.

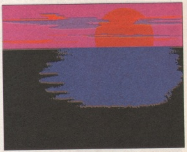
2 Using the filled freehand tool and dark blue as the drawing colour, draw out a rough-edged shape to represent a portion of the sea. Select Smear from the Mode menu, and with a large rounded brush, smear the edges of the sea horizontally.



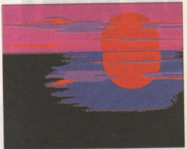
This is the start of the background; a semi-circle for the sun, and a freehand blue pool of sea.

3 Using shades of pink and red, and the freehand filled tool, draw long, thin clouds streaking across the sky and sun. Not too many though – check the illustration. Select your sky pink as the background colour (right click on it) and cut out a brush of the sun and surrounding sky, taking care not to include any of the blue .

4 Press key 'y' to flip the brush vertically. Call up the Stencil requester from the Effects menu and protect every colour except the one used for the sea. Now paint the brush down on the sea for a perfect reflection. Turn off the Stencil.



The clouds – wisps of pink and red have been added and the sea blurred around the edges.



The sky has been copied, flipped and painted down in the sea to act as a reflection.

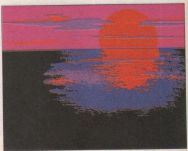
THE ANIMATION

The only moving part of the picture is the sea and reflection but it adds a new and exciting dimension to the whole scene. The techniques outlined can be used for any liquid reflections too.

1 On the spare screen, create a series of different-length horizontal lines below each other - a kind of step-ladder effect, but with rungs of different widths. The combined width should be around that of the area used for the sea on the main screen, and around 6cm deep.

2 Cut out the multi-line brush, and go to frame one of the animation sequence. Call up the spacing requester by right clicking on the straight line tool, and enter 10 in the N_value box.

3 Call up the stencil, clear it, and protect every colour except the blue used for the sea and the reds and pinks of the reflected clouds and sun. Select Smear from the Mode menu, and with your finger on the Alt key, position your lines brush at the bottom of the sea, and with your finger held on the mouse button, draw the brush up screen until you reach the top of the sea. Let go of the button, and a smear effect will work its way through your animation.

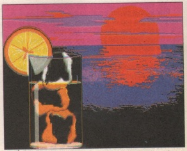


Using the multiple-lines brush we created, here's how the sea is being made to shimmer throughout the sequence. As each frame will be slightly different, the effect really does mimic a calm sea with small waves.

4 Repeat this as many times as you like, once in a while moving the brush a few cms left and right to mix up the reflected colours. The fact that the brush moves in between each frame gives a random shimmer and ripple to the sequence. Load in the glass brush, outline it in black and paste it down manually in the same spot on each of the 10 frames.

5 Press key six to see the animation loop beautifully.

IDEAS: The animation is a pat way of adding realism to reflections in liquids; rivers, oceans all have reflective properties which can be enhanced by movement over their surface. You can also simulate heat-haze for desert scenes in this way too.



The tumbler is added to the animation, acting as a strong foreground focal point. That's the life ... a nice ice cold drink beside a calming sunset – just what you need afters a hard day's work at the CU AMIGA offices.

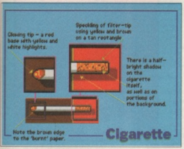
TUTORIAL 3

BRILLIANCE:

CLOUDS OF IGNORANCE

Object: To re-create the whispy, transparent nature of smoke.
Mode: *Brilliance*, 64 colour half-brite, low res (320 x 256 EHB mode); 10 frames.

The first thing to note is that we're using the Half-brite mode that is on all Amigas (except the very few early 1000s). This gives you a main palette of 32 colours, as in standard low res, but doubles them with 32 daughter colours which are half as bright as the originals. A very nice in-between mode which is not as memory-intensive as other multi-coloured ones.

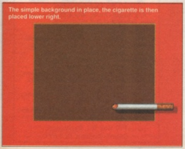

Glowing tip – a red base with yellow and white highlights.
Speckling of filter-tip using yellow and brown on a tan rectangle
There is a half-bright shadow on the cigarette itself, as well as on portions of the background.
Note the brown edge to the 'burnt' paper.
Cigarette

Anatomy of a serial killer ... how the cigarette is made, showing the effect of the Halfbrite shadow too.

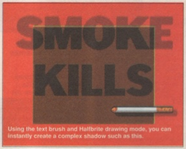
1 The cigarette is a simple two-rectangle structure. One is tan, the other mid-grey. The filter-tip effect is achieved by peppering yellow and brown on the solid rectangle. The glowing tip is composed of a freehand filled shape of red, with yellow and white peppering, and a brown edge to simulate burning paper.

2 Switch to the alternate screen (j key). As usual, we're using a simple background to help focus attention on the message; a red screen with a brown rectangle in the centre, edged with yellow. That's all you need. Next job is to place the cigarette.

3 From the alternate screen, cut out the cigarette, and go back to the background screen. From the painting modes requester (accessed by clicking the draw mode tool), select Halfbrite. Paint the cigarette-shaped brush on the right-hand edge of the background screen, and see how it creates a transparent shadow over what's below – this is the magic of halfbrite.



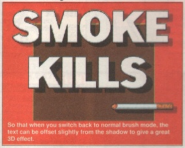
The simple background in place, the cigarette is then placed lower right.



Using the text brush and Halfbrite drawing mode, you can instantly create a complex shadow such as this.

4 Re-access the Modes menu, and set the mode to Brush. Place your brush a little above and to the left of the shadow we've just placed. It's time for the text now; as usual, this technique isn't specific to this one animation – it's a skill which you will find useful for lots of halfbrite work. Switch to the spare screen, and select a large sized font, then enter your text using white as the painting colour.

5 Cut out the text as a brush, and switch back to the main screen; following the same procedure as we did for the cigarette shadow, create a shadow of the text in halfbrite mode, then restore the brush and paint it down a little offset to the top and left of the shadow image.



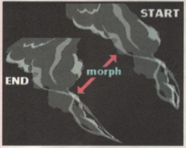
So that when you switch back to normal brush mode, the text can be offset slightly from the shadow to give a great 3D effect.

6 Call up the Animation control panel (right click on the movie projector icon or press keypad 3) and create 10 frames based on the current image. You should save the sequence now for safety

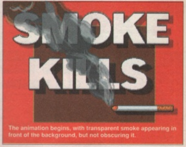
SMOKE

1 Go to the Spare screen, Clear it, and set painting mode to Colour; using four greys, from medium to light, draw out freehand-filled curls and wisps of smoke, which should have a single starting point (in this case, it will be the end of the cigarette).

2 Cut out the brush, and call up the Brush menu (keypad 2, or right click the Scissors tool. Place the brush in slot one of the storage grid. Call up the Brush Distort Menu (its menu tool looks like three sheets of paper in descending order and is left of the Undo button) and click on the X button in the Shear section. Now by moving the mouse, you will be able to shear, or bend your smoke brush several degrees to the right. So what you have when you finish shearing is a shape similar to the original brush, but looking as if it has been blown sideways.



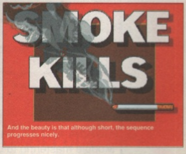
Here's how one plume of smoke can be given life, by duplicating, shearing and then morphing the original into the sheared one. There's not much of a change, but enough to give realism to the plume during the animation.



The animation begins, with transparent smoke appearing in front of the background, but not obscuring it.

3 Call up the Brush Menu again and store this in slot two for safekeeping. Activate the Anim Brush menu now (keypad 2), and in the Morph section, ensure Frames is set to 10. Click on button 1 in the From section, and wait several minutes whilst brush 1 (the original smoke) is morphed into brush 2 over 10 cells.

4 Once the process is complete, go to frame one of the animation: Turn on Transparency (the icon to the left of the drawing dot), and manually place the first cell of the animbrush correctly, with the smoke coming out of the lit end. Click the mouse button to paint the brush, and advance to the next frame by pressing key 2. Your Animbrush cell has advanced too, so continue the process until the scene is complete. I found that Transparency worked so well, I was able to repeat the process once more, laying down more whispy smoke to emphasis it.



And the beauty is that although short, the sequence progresses nicely.

IDEAS: For Jet engines, guns, motorcars, smoke and fumes are clever touches to static scenes which bring them to life. Using translucency or tints, you preserve your main drawing whilst conveying a realistic mode to pictures. CU

NEXT MONTH

In answer to requests from a number of tooled-up Amiga users, we'll be creating animations which make the most of extended memory. So watch out for tips and tactics on HAM and 256 colour sequences, when the extended graphics capabilities of the likes of the A1200 will be sorely tested!

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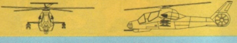

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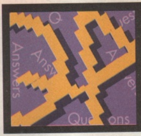
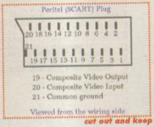


Our team of Amiga experts blaze their way through another sack-full of readers' letters.

TV ON THE CHEAP

I own a bog standard Amiga 1200, and a 14 inch Microvitec 1438 multisync monitor, and I would be grateful if you could answer the following questions:



The SCART system packages all sorts of video and sound signals into one cable. Above: the essential connections you'll need to watch TV on a suitable monitor.

1. Is it possible to receive TV pictures on my Microvitec monitor as I would get a much better display due to its 0.28mm dot pitch? However, unless I have my numbers wrong, televisions receive signals at 50kHz, whereas the 1438 monitor syncs at 15 – 38 kHz. So, am I right in thinking that it's not possible to receive TV pictures?

2. Assuming I *can* receive pictures, can I use Power Computing's Video Backup system, as the advert says you can use it on a 1084 monitor?

3. John, where did you get the Judge Dredd pics you used in the Masterclass section?

Dean Carl Pelier, Alpha House, Kilburn, London.

1. Hmm, some number confusion here. A television updates its picture at 50kHz (which is another way of saying fifty times a second), but this has nothing to do with those other numbers, which are measures of the horizontal scan rate.

Normal TV video signals have a scan rate of 15kHz, so the Microvitec will be able to display video perfectly, and as you say, the good dot pitch should give an excellent picture. The only problem will be trying to sort out a source of suitable video signals – you'll need separate Red, Green, Blue and Sync signals for the Microvitec.

2. The Video Backup system has a composite video output, and the 1084 has a composite video input – hence you can watch TV. The video back-up unit just provides an easy way of linking the TV tuner from the video recorder (which is required to back up the hard disk) with the monitor. You don't actually need the Video Backup unit at all to watch TV – just a suitable cable which any TV repair shop will be able to knock up for you. Alternatively, most video-to-video repair kits will include enough adaptors to get the job done.

What this all means by the way, is that unless your video recorder has separate Red, Green and Blue and Sync outputs, you won't be able to use it to watch TV. In any case, I suspect you don't actually have a video recorder and you only want some way of getting a cheap TV in your college digs. If this is true, I have three things to say:

i. Remember that if you succeed, you will need to buy a TV license. Unless your TV is battery powered, students living away from home need their own license. The detector vans are very good these days, and with student grants the pittance they are a large fine could be disastrous.

ii. Keep a look out in electronics magazines for stand-alone TV tuners (they cost about £50, and some will have suitable video out signal – especially old Amstrad ones, originally designed for the CPC colour monitor.)

iii. Don't waste your time watching TV, and go to the library and do some work instead. Or you'll end up like John.

3. I don't know which pictures you are talking about. If I had scanned them directly from the comic with my zarjaz JX100 colour scanner, I'd be a totally grexnix copyright infringer – wouldn't I? The last thing I need need is a hot shot from Tharg thanks ...

John Kennedy: "Can we have some more reader letters about printer drivers please?"

Andy Leaning: "Oh yes, and some more from A600 owners too!"

SIZE PROBLEMS

I know the A1200 was only supposed to have the 2.5 inch IDE hard drive fitted internally, but is it possible to fit a 3.5 inch drive? The larger drivers are cheaper and I've heard that they are more reliable.

Adnan Hussain, London.

Yes, it is possible to fit 3.5 inch drives to the A1200, although you have to understand that this model of Amiga wasn't designed with them in mind and so you perform any operations at the cost of your warranty and your own risk

You will need some cables to take the different drive cable sizes into account, and a power cable that borrows a 12 volt supply from the internal floppy drive power (the floppy drive will continue to work as normal). Trilogic (tel: 0274 691115) sell these cables quite cheaply.

Fitting the drive inside the Amiga is a fine art, and depending on the exact size of the hard drive (which varies from model to model) it is possible to squeeze it into the case with only minor alterations.

PIRACY PLAGUE

I own an Amiga 500+ with 2Mb. which I've had for about four months. In the first few weeks I didn't have much software so I started swopping software with my friends, but when I swopped *Sensible Software* with one of them my Amiga caught a virus, Joshua, which has since started writing read errors to my disks. I have tried using brand new games but it does it to them as well.

Keiran, Brentwood.

Sorry, Keiran but my first reaction is that as a software pirate you deserve all you get. Swopping software is a form of piracy, and it is partly a result of piracy that has the Amiga and parent Commodore in the state they are in today.

Never use programs you can't trace directly back to their source, always switch off your Amiga for a few minutes between games and get a disk drive cleaner, because that is what's wrong with your computer. And one more thing – buy your own copy of *Sensible Software* immediately.

A600 PERFECTION

I have an A600 with 1Mb upgrade. However, why is it that there seems to a CD-ROM drive for every Amiga except the A600? Is there a chip I could buy to turn my 16-bit Amiga into a 32-bit Amiga? I have seen the A1200 in action and I'm not impressed. I will eventually upgrade to an A4000T but at the moment I am happy with my A600: I just need to upgrade.

L. Pattison, Bradley, Bilston.

Like the A1200, the A600 has a PCMCIA slot, and I am convinced that it is only a matter of time before it is possible to attach a CD-ROM drive to the A600. In the meantime, you can still keep a look-out for a second-hand CDTV and use *ParNET* to connect it to your A600.

Here at CU AMIGA we have yet to see any form of accelerator for the A600 (you need a 68020 or better for 32-bit performance), but try contacting WAW Elektronik in Germany (tel: 030-404-3331, fax: 030-404-7039) who are rumoured to be producing all sorts of hardware for the A600 and CDTV: we just haven't seen any yet, that's all.

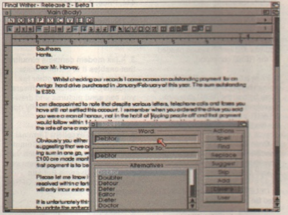
What do you mean you aren't impressed with the A1200? Which features weren't good enough for you then? The 2Mb Chip RAM? The processor which goes four times faster? The new Workbench? The Advanced Graphics Architecture chipset, which can produce more than 256,000 colours from a 16 million colour palette and drive a multisync monitor for flicker free displays of 640 by 512? The ability to have a 50MHz 68030 in the trapdoor (and a 68040 is rumoured)? Come on Mr. Pattison, get hold of one of the latest AGA demos and pop it into an A1200 in your local computer shop. Then try to stop yourself from buying one.

MY PRINTER WORKS TOO WELL

I have a three-year-old A500+ with 2Mb of RAM, a 100Mb hard disk and external floppy drive and a Canon BJ10ex printer.

1. What printer drivers will work with my printer? I was told to use EpsonQ but just about any one seems to work.

2. I am not sure whether my RAM is working properly. I have tried the AVAIL command, but I am unable to understand it. How many bytes should I have free with just Workbench and a Shell running?



Southsea,
Hants.

Dear Mr. Harvey,

Whilst checking our records I came across an outstanding payment for an Amiga hard drive purchased in January/February of this year. The sum outstanding is £350.

I am disappointed to note that despite various letters, telephone calls and faxes you have still not settled this account. I remember when you ordered the drive you said you were a man of honour, not in the habit of ripping people off and that payment
would follow within
the rate of one a mo

Obviously you either
suggesting that we c
ing sum in one go, w
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first payment is to be

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Doctor

Is your printer working perfectly? Text comes out crisp and clean? What about when you use a program such as *FinalWriter* – don't you need a dedicated printer driver then?

3. Could I connect two Amigas together through their hard drives via the SCSI ports? I would like to transfer the entire contents of my hard drive to my Dad's without having to go to the bother of backing up the disk and then restoring.

4. Is it worth buying an A1200 considering its age and Commodore's present state?

C. Robertson, Dumbarton.

1. Most printer drivers will work but not all will take advantage of the Canon's advanced graphics printing features. For example, a simple word processor will output raw text which the printer will happily print. But try an italic, bold or underlined font and you'll start to have problems.

A program like the excellent *Final Writer* uses its own fonts, and if you try these you will simply get gibberish. The same thing will happen if you try and print something from within *Deluxe Paint*. For more control, take the time to buy the Canon Print Studio software, available from JAM (tel: 01895 274449). Mind you this has to be a world's first, a letter complaining that a printer driver works too well. I'll have to lie down for a bit.

2. What makes you think that your RAM isn't working in the first place? The AVAIL command won't test it anyway, it simply lists the amounts of different sorts available (Chip, Fast and the total) under different situations (current amount available, current amount in use, maximum amount and the largest continuous block free). You will have about 2 millions bytes of Chip, but how much depends on screen modes, drives fitted and a hundred other things. If you really need to test it, there are various programs in the Public Domain (try 17 Bit's PD Engineer's Toolkit, tel: 0924 3669982).

3. You could theoretically connect two Amigas like this, although I for one wouldn't like to have to write the driver software. The quickest way to transfer the data would be to connect the drives to the same SCSI bus (there can be up to six drives on the same SCSI bus), which will require one hard drive to be disassembled, the SCSI ID jumper to the changed and a special cable used.

An easier (but slower way) would be to get hold of *ParNET*, and link the two Amigas via their parallel ports. *ParNET* can do more than link CDTVs but why not simply use the regular back-up you have made of your hard drive? What do you mean you don't want to bother?

4. The A1200 is great home computer, with many benefits over the A500+. Get one.

WHY OH WHY?

I have been an avid reader of CU AMIGA since 1989. Since then I have written to CU AMIGA twice about three years ago and to this day I have had no reply.

However, I would be grateful if you would answer this letter in your Q&A section. Is it possible to get a motor mechanics course on disk? For example designing or putting together car engines with a point, click and place basis on engine components. If not could you put this idea to the software houses?

Anthony Bradley, Ballyfermot, Dublin.

Sorry, Anthony but loyal reader or not we can't possibly reply to every letter sent to us. If we did, we wouldn't have time to create the magazine in the first place. The good news is that yes, a mechanics course as you describe does exist (or one very close to it) and it's on CD-ROM. The Bad News that it is for the PC, and there are no plans, as yet, for an Amiga version.

TEN QUESTIONS

I am one of the original Amiga owners. I have an A500+ that didn't come in a pack or anything. I have some questions:

1. How do you create those readme files which I find on a lot of disks?

2. What is the different between NDOS and normal disks?

3. Why are Atari STs so rubbish compared with the Amiga, when they nearly have the same power?

4. Is there a 1Mb 3D rendering package available?

5. What makes hard drives twice as expensive as floppy drives?

6. Are there any decent hard drives for under £100?

7. What is the *Disk Doctor* and where can I get one from?

8. How much does it cost EMAP to

»

» produce every edition of your wonderful CU AMIGA?

9. Can the Canon 10sx produce multi-coloured printouts?

10. Finally, CD-ROM for the A500: where, how much and what will it run?

John Addicott, Moorland, Somerset.

I'm sorry, but to qualify as an original Amiga owner you need to have had an A1000, or at the very least, a 512K Workbench 1.2 A500. Everything else is wimpy modern-day stuff.

1. Use ED from a Shell to create a readme text file. If you need an Icon, the easiest way is to copy one from an existing text file. Make sure there is a suitable text file reader on your disk (for example, the program *More*).

2. NDOS disks have been formatted in a different way from normal AmigaDOS disks and therefore the Workbench can't understand them. Special programs on the bootblock of the NDOS disks contain a specially written file handing system especially for dealing with them. The idea is to reduce piracy by making the disks impossible to read with standard software.

3. Time warp time! This issue was concluded a long time ago, when it became apparent that the Amiga's superior custom chips and more advanced operating system gave it the edge over the ST, even though they both use Motorola 68000 processors.

4. You can't render anything in 3D with only 1Mb, it's simply not on. *Real 3D classic* might get close but you will still need more memory to make it a worthwhile purchase.

5. Hard drives are considerably more advanced than floppy drives. They are much, much faster, and need to work reliably for years.

6. Hmmm ... probably not. You might get a second-hand drive of about 20Mb, but this would be a waste of money. Don't get a hard drive smaller than 80Mb, get one preferably much larger.

7. *DiskDoctor* is a program that came with Workbench 1.3. It tries to read data from damaged floppy disks, and it occasionally succeeded (whereupon it renamed the disk Lazarus and caused a spate of virus scare stories in the letters pages of various magazines). Instead, get the latest version of the program *DiskSalve* from your local Public Domain library.

8. A little more than tuppence ha'penny, I bet.

9. No, it's a monochrome printer.

10. Commodore's A590. About £99 from various advertisers. It will read all CDTV disks and all the current PD disks.

BLITZ FIX

I felt you somehow threw an unjustly dark shadow over *Blitz Basic* in your reply to N. Ferguson's letter in your Q&A pages in the August issue. Mr. Ferguson wanted to hide his graphics data from prying eyes whilst writing programs in *Blitz Basic*.

I believe there exists a far more elegant and easier method. Here is a pseudo algorithm for achieving it:

1. INCBIN any external data files, taking care to assign START: and END: labels, before and after the INCBIN statement.

2. Write a procedure to READ the INCBINned data, using the START: and END: labels to calculate the address and length values needed by the READ command.

3. Write a procedure to WRITE (remembering to ALLOCMEM enough bytes before) the READ data temporarily to RAM:, once again using the START: and END: labels to calculate the length and address values.

4. Once the data file in in RAM:, use LoadBitMap, LoadMED, LoadFONT , LoadSHAPE or whatever you require to load the data file.

5. DELETEFILE the temporarily created file in RAM: as it won't be needed any more.

I believe that this method is by far more versatile than AMOS' own memory banks, as you can include any kind of data be it an IFF picture, MED or *Soundtracker* module, shape or font. In AMOS you can only merge IFF and bob files, but *Blitz* does it with style.

Kenneth Summut, Marsa, Malta.

MODEM WORRY

I own an A1200 and am interested in buying a modem. I have read your articles on Comms and modems, and would be pleased if you could answer my questions:

1. Could you recommend a good modem between £100 and £200?

2. Which is the better modem: the Supra Fax Modem 144LZ or the Pace Linnet PLus?

3. What exactly is a fax modem?

4. What is the best program for controlling the modem, and where can I get it?

5. Which is the best OLR program to use?

6. Please could you tell me the number of any boards in the Coventry and Birmingham area.

A. P Malin, Clifford Park, Coventry.

1. The US Robotics Sportster 14400 Fax modem falls into your price bracket and is very reliable (available from First, tel: 0532 319 444, Price: £ 151.99).

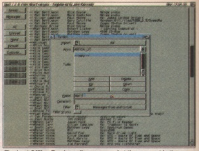
2. The Supra operates at 14,400 bits per second whilst the Pace doesn't. Need I say more?

3. A fax modem contains circuitry that enables it to communicate with fax machines (or other fax modems). With suitable software you can send pictures and drawings. This software is usually not included with the modem.

4. Term is an excellent Terminal Emulator for the Amiga. NComm can misbehave in ways which various Sysops have told me causes problems with some Bulletin Boards. For sending faxes, GPFax is the tops.

5. OLR (Off-Line Reading) software is used to make sending Email easier and cheaper. If at all possible, try to register as a FidoNet 'Point' with a Bulletin Board, and then use Spot 1.3 Otherwise, a OLR program such as *Bluewave* is as good as any.

6. It's a funny thing, but I can't find any. There must be some somewhere nearby, so log onto any board and leave a message asking for suggestions.



The best Offline Reader software around at the moment is the recently updated *Spot*, now into version 1.3. Improvements include the ability to add unwanted messages to an internal 'twit list' that will save you time looking through messages.

I WANNA MAKE A DEMO!

I am 14 and am thinking of making some animations to put on the PD market.

Whether I will be successful or not I don't know but I am willing to have a go. The trouble is that I don't know how to get started or how to put a disk together once I do. I have an A500 with 1Mb of memory, *Deluxe Paint 4* for animation and *OctaMED 4* for sound. I also have no programming experience whatsoever. Could you please tell me of a good simple to use program that could help me?

Could you also me whether you think I should get a memory upgrade and if so, how big?
P.S. Could you please tell me how to use Animbrushes, because I've lost my manual.

Jon Doe, Little Stoke, Bristol.

The average demo disk works in a very special way: rather than simply replaying an animation created with *Deluxe Paint*, the animations are written into the program itself. This is necessary to create the lengthy and complicated miniature music videos which are par for the course these days.

Now that's not to say you should be even attempt to start, you will able to create a lot of impressive effects with what you have got. *Deluxe Paint* comes with a program which will replay animations, and there are plenty of others in the Public Domain which will also do the job. You should be able to find a program which is capable of replaying sounds in the background too.

As you guessed, your lack of memory might be a problem, so stick to animations with as few colours as possible and use short sound samples. The *Video Tracker* program given away with the June issue will help you as well.

When shopping for memory, keep a look out for second-hand bargains as many owners upgrade to A1200s or A4000s. You can't have too much RAM, and the more you have, the longer the animations you can replay in one go.
P.S. Always put your manuals in a safe place, without them you tend to sound a bit like a pirate. Check out the regular tutorials in issues of CU AMIGA for some hints on animations and such like.

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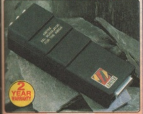

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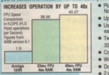

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This switchable mode stops track 0 viruses infecting the disk while in the drive. Unlike many other drives which have virus killers, this mode can be disabled, allowing some fussy copy protected software to run.

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HELP IS AT HAND

This month, John Kennedy eases all your graphic worries.

Q What is the AGA chipset?

A Older Amigas (A500, A600, A2000, A3000, CDTV) didn't have the AGA (Advanced Graphics Architecture) chipset, and therefore could only display images in a maximum of 16 colours in high-resolution (640 pixels across). However, more recent Amigas have AGA chips and can display up to 256 different colours, or in HAM8 mode.

Q Is it possible to fit the AGA chipset to the older Amigas?

A No, it isn't possible. If you have an A1500, A2000 or A3000 you can buy a third-party graphics card and emulate or improve upon the AGA modes, especially if you upgrade to Workbench 3.1.

Q What is Akiko?

A Akiko is a special chip built into the CD32 to help programmers produce certain forms of graphics effects (such as those used in *Doom*). The chip performs a 'chunky to planar' conversion which maps graphics stored in a byte-per-pixel form into bitplane patterns.

Q How do CD32 games work on the A1200 with a CD-ROM drive then?

A It is possible to emulate the Akiko chip in software, and this is done in the extra software supplied with the CD-ROM drives. Workbench 3.1 also attempts to make this process invisible.

Q What is HAM8 mode?

A HAM mode uses a trick to allow up to 4096 different colours on screen at once, by remembering the previous colour used and making small differences to it. HAM8 (only available with the AGA chipset) takes this one step further to allow up to 262,000 colours. When used in high resolution mode, a good HAM8 image is almost indistinguishable from a 24-bit image.

Q What are 24-bit graphics?

A When three bytes of memory (3 x 8 = 24-bits) are set-aside to store the colour information of every pixel in a display, over 16million different colours are possible. Programs such as the *Art Department* store images in this format to ensure optimum quality when processing the images.

Art Department will 'cut down' the number of colours to display the image in a normal Amiga graphics mode, but if a third party graphics card is used the image can be seen in true 24-bit colour.

Q What graphics cards are available?

A Several graphics card are available on Zorro format, which means they only work in A2000, A3000 or A4000s. The Retina, the GVP Spectrum, the Picasso, the Picollo and the Rainbow are some of the most popular. At the moment there are no graphics cards for the A1200.

Q What software do I need for animation?

A For cartoon style animation, you can't beat *Deluxe Paint* or *Brilliance*. Both allow minature films to be made and provide easy methods of cutting out 'brushes' on-screen and moving them. If you want to make cartoons with lots of colour, detail or frames you will need to invest in some extra memory.

Q How can I create 3D images like those used in *Babylon 5*?

A You will need suitable image rendering software, such as *Imagine 3*, *Real 3Dv2* or *LightWave*. Then you'll need a very fast Amiga (one with a 68040 processor is best), and about 16Mb of RAM. You'll also need a huge hard disk and a month or two to create and render the models.

Q How do I record my graphics onto video tape?

A An Amiga 1200 and Amiga 600 has a direct composite video output, which contains colour graphics information and sound. This signal is suitable for connecting directly to a video recorder, although you will need a suitable lead. An A500 uses an external modulator to achieve the same result.

Q How can I overlay graphics over any of my video footage?

A To record graphics *over* real 'live' video from a camcorder, you'll need a device called a genlock. Most good-quality genlocks have fader and sound mixing controls.

Q What is IFF?

A IFF is the Interchangeable File Format – a standard used by the Amiga to save data to disk. Pictures are also usually saved in IFF format, which means pictures saved from one paint program will load into another.

Q What is the Copper?

A The Copper is the graphics co-processor which looks after the graphic effects. The Copper runs a program called a 'copper list', which will look after video modes, the colours used and is especially good at scrolling and graduated colour backdrops.

Q How do I get graphics into the Amiga?

A You can either draw them yourself using the mouse, or acquire some extra hardware and use that. The simplest hardware is a graphics tablet, which works like a normal pen and is therefore easier to use. Other hardware includes scanners (either flatbed or handheld) and digitisers.

A scanner will take flat pictures and reproduce them on-screen where they can be saved as IFFs. It's good for DTP work, which deals with a lot of photographs.

A video digitiser will take any incoming video signal (for example, from a digitiser) and convert it into IFF format. You can then load the image into a paint program and play around with it.

Q Why is there no version of *Doom* for the Amiga?

A Well, I would have answered this question along the lines of: "The main reason is that the IBM-PC uses a completely different method of storing graphics, one which is good at texture mapping (the technique of projecting patterns onto walls to give an impression of depth) but not very good at scrolling. Doom was written to make the most of the PC's graphics and also the extra speed – a 486PC runs a lot faster than an unexpanded A1200."

However, it now looks like a *Doom* clone will be on the Amiga and we have the exclusive – check out the news pages in this issue for more information on this breakthrough.

Q Do I need a monitor?

A If you use your Amiga a lot for word processing or programming, then a monitor will produce a picture which is a lot clearer and sharper than the TV.

Q I have an A1200 – which monitor should I get?

A If you really only play games but still want a better picture than a domestic Television set, a low resolution monitor or SCART fitted TV/Monitor will suffice.

On the other hand, if you are a more serious user a multisync monitor (such as the Commodore 1942 or 1940) will allow screen displays of up to 640 by 512 without any flicker on an Amiga with the AGA chipset.

COMMS

PART 1

Left behind by the communications revolution? Don't know your baud rate from your file transfer protocol? Peter Fitzpatrick re-starts the Comms tutorials for those who have just started and feel stranded.

Comms has been around for some time but recently it seems to be enjoying new found popularity. I mean, all you have to do is open a newspaper and you will no doubt see stories, both positive and negative about the Internet. Even television isn't immune to the current Comms craze – Email numbers are beginning to pop up on TV credits inviting you send in comments on shows, while both the Samaritans and Paddy Ashdown (the Liberal Democrat leader) have gone on line..

So what's it all about? Well, the Comms network links thousands of modem users worldwide. Armed with just an Amiga and a modem you can either interface with other individual modem users or log on to numerous Bulletin Boards (BBs) where you can chat with other users or download shareware goodies and other computer related flotsam and jetsam.

So how do you go about joining this global network. Well, first of all you need an Amiga and a modem. The modem connects your Amiga to a standard telephone line with which you can pass messages and files to another modem or modems which are linked to a computer. The really great thing is that nearly all computers can use it, so you can chat with PC and MAC users too.

BULLETIN BOARDS

Although, interfacing with individual modems is good, connecting up to a bulletin board is a lot more fun. A bulletin board is a commercially-run service where one or more computers are permanently available at the other end of the telephone line. Usually equipped with huge hard disks they can store vast amounts of information and programs etc, which are all readily available. Their main use is to act as an intermediary point for passing information to other users. For example, rather than having to organise with your friend a mutual time when you both have to be seated at your computers to modem each other, you can leave messages and information for one another on the BBS. When you connect up with this type of system it will inform you if there are any messages waiting for you. This is the main principle behind Email or electronic mail.

Once you have your own Email address you can receive electronic messages from people the world over. All they need to know is your Email address – a universally recognised code which refers to your own personal space on one of these bulletin boards. Some bulletin boards are not open to public access, others have areas on them where only certain people can gain access but most can be used to pass messages to other similar setups around the world. This transglobal connection forms the basis of Internet. The Net, as it is often called, is a huge digital database made up of thousands of computers all around the world linked together. Net users can gain access to a wealth of information, much of it useful. Not all bulletin boards provide access to the Internet yet, but that day is not far off.

A HELPING HAND

Maybe the current wave of interest in Comms is just a passing fad, but then again maybe it's a genuine technological revolution. If the latter is true then we should all take our seats at the ringside.

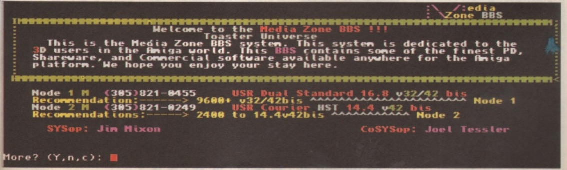
For the newcomer to Comms, the benefits are all too readily apparent – easy access to a worldwide network of other Comms users. However, the pitfalls soon become equally evident. Try getting to grips with the whole issue and you will encounter such delightful terms as V.32bis, baud rates, X-Modem, no carrier, stop bits and the like. All areas of computing have their jargon but with Comms it gets ridiculous. Over the coming months I'll be explaining how to get up and running with your modem. I'm going to try and make it all as simple as possible because I don't see why it has to be difficult. Inevitably this will mean some jargon but only if I can't find a way of avoiding it. However, if you are a more experienced Comms user, I'd love to hear your comments and suggestions on just about anything you care to mention. CU AMIGA has an open conference on cuamiga@ cix.compulink.co.uk. Or, if you want to contact me personally try email pfitzpatricka@cix. compulink. co.uk. CU

BBS UPDATE

A new Amiga-dedicated BBS called Quantum Leap has started. Contact: 0181 292 8877 between 10pm and 8am only.

JARGON BUSTER

- **BULLETIN BOARD:** Computer(s) at the end of the telephone line providing a commercial service. Some bulletin boards specialise in specific topics or are for a particular business use, others are more general.
- **COMMS:** Abbreviation for communications. General term for the whole business of using a modem and linking up to a computer elsewhere.
- **EMAIL ADDRESS:** Electronic equivalent of a pigeonhole – remember them? Each user can have one or more Email addresses.
- **EMAIL:** electronic mail. Messages or files sent via a bulletin board for the personal attention of another user or users.
- **INTERNET:** Global network of interlinked bulletin boards. Home to unimaginably huge amounts of electronic information.
- **MODEM:** Stands for the rather baffling MODulator-DEmodulator. It's the box of tricks which lets your computer send and receive messages along a telephone line.



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More? (Y,n,c): 
```

SOUND LAB

AKAI professional

Samples eat memory like something with a very big appetite. Tony Horgan has some ideas to slim down those bulging music modules.

Why take two samples into the shower, when you can can just chop and go? The most effective way of saving memory is to trim off all excess noise from your samples. Most sample editors (including those in *OctaMED* and *Protracker*) will show you which part of the sample is playing, with a scan line that runs through the on-screen waveform. You can use this to check whether the whole sample is needed, or if you can take off a bit at the end, or even at the start.

Let's say you have a song in *OctaMED* or *Protracker*, which includes a long sample that plays the lead melody. It's quite likely that the latter part of that sample will not be heard anywhere in the song (due to one note being interrupted by the next note in the sequence, before the whole sample has played through). Play the song, and enter the sample editor. Bring up the lead sample, and look to see if the scan line passes all the way along the waveform. If, for example, the line only ever gets halfway along the sample, you can cut off the second half of it – simple.

SMALL TIPS

Here are some more ideas for keeping your songs as small as possible.

- Use low sample rates when a high rate would not increase the quality, such as recordings of telephone speech, gramophone records, distant radio broadcasts etc.
- Use loops on long sustained sounds, and recreate fade-outs with volume commands or OctaMED's Hold and Decay settings.
- Create echoes by playing the same sample across a number of tracks, rather than putting an echo on the sample itself.
- Save disk space with the use of compression options from within your tracker, or with separate cruncher programs. You can get a disk of crunchers from any good PD library.

DISSECTED RHYTHMS

Rhythm loops are stacks of fun, but just a single four beat bar can use around 40K. Expand that to two or four bars, and I'm sure you can do the sums for yourself. However, most rhythm loops will have similar or identical sounds that repeat a number of times, maybe at different pitches. This means that you can often break down the loop into a number of smaller parts, and then reconstruct it in the song block.

There's an example drum loop on this month's coverdisk 95. See the coverdisk instructions on page 12. Before you go chopping it up, you should make sure you know what bass and treble sounds look like. Pure bass sounds can be recognised by their long smooth arches, while treble sounds look like steep pointed mountain ranges. Where bass and treble sounds occur simultaneously, you'll see the pointed mountain ranges (treble) riding over the sweeping arches of the bass. The height of the arches or mountains defines the volume of the sound. High peaks and low troughs are typical of a loud sample. A quiet sample looks like a wobbly line running through the middle of the graph.

Armed with this knowledge, you should now be able to tell a bass drum from a high hat, just by looking at the sample wave. This is a big help when it comes to cutting up the beat. After a while you'll be able to dissect a whole loop without even listening to it.

Once you've cut up the beat, you'll normally be able to recreate it using just a few of the cut-out pieces. As well as saving memory, this gives you the opportunity to add your own variations and fills. It also means that you can change the tempo of your song, without having to retune a long sample to fit the new timing. As you're now using one-shot drum sounds, they'll stay in time with any tempo changes.

Use different volume levels for certain samples to give your reconstituted beats more life. Similar techniques can be used with tuned rhythms, such as basslines.

SYNTH SOUNDS

OctaMED's synthetic sounds can be very useful. Although they often sound awful, some can sound pretty good. For example, the sub-bass used in the Some Justice 94 demo (Cynostic PD tel: 0203 681687) is just a simple *OctaMED* synth sound - nothing more than a sine wave, but it's very effective, and uses less than 1K of RAM. Other synth sounds can be used for lead lines, chords, and even percussion parts.

That's it from me for another month. Tune in next issue for some more chat about music and noise, and stuff like that.

Roland JV-30

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BACKCHAT

"It's good to talk," says Bob Hoskins. What would he know? As far as we're concerned, it's better to write, which is why we bring you the Backchat pages. To air your worries and opinions write to: Backchat, CU AMIGA, The Penthouse Suite, Priory Court, 30-32 Farringdon Lane, London EC1R 3AU.

GOING NOWHERE?

I have been reading your magazine since I bought my first Amiga in April 1992. I used to buy two Amiga magazines then, yours and *Amiga Format*. But at £3.95 each I was spending too much on them. I then dropped one and kept buying the best: CU AMIGA.

The trouble is that you don't seem to be going anywhere. The coverdisks are not up to much. Take *GB Route* on disk 86, this is much the same as the *GB Route* on disk 34, but it says on the disk "New Version". The M40 wasn't on the former because I assumed it had only just opened. However, the M40 isn't even on Disk 86, and it has been open for two years! Why give a free program away when it isn't up-to-date? I know that it is supposed to entice you to purchase the 'special offer' version, but why put it on as a free disk when Complex Computers have paid you for it? It seems to me that you're getting paid twice for the same job. Most users probably won't even use this, instead wishing, like myself, that you would put something useful on the covers, like fonts or pictures in IFF for use on word processors or paint programs or nothing at all and bring the price down. Even small PD games are better than some of the programs on the cover disks. How about getting *DPaint 1* or 2 on the cover. I know it's old, but it'll be more useful that some of the other programs you have given away. I don't like paying for useless programs.

I am glad that you have restarted the Helpline. You always have reviews of games, but stopped giving any hints as how to solve or cheat them, with the exception of the Adventure Helpline, but that only caters for adventure games. How about some help for those who prefer platforms (and I don't mean the shoes)?

I also like the hardware reviews, but I think that they could be done a little better. For example, printers should be shown with their own kind, ie: dot matrix colour 9 and 24 pin one month, mono the next, bubble jet after that and so on. Then when all types have been done, a review of the top two in every category in one feature "The best of ..."

On the plus side, the ever increasing Public Domain is excellent. Keep this up. Your news feature are also impressive as are most of the lead features, although they could use more room..

Gavin Heap, Cheshire.

Constructive criticism is always welcomed in this camp, Gavin, and we're pleased that you like the PD section of the mag and the lead features. Product round ups, as we call them, always have, and always will be a part of the magazine, but we only carry them out when there have been enough new products since the last round up to justify them – if we did a round up every time a new printer came out we'd end up repeating ourselves every month!

As far as coverdisks are concerned, we try to bring you as varied and useful a selection of full price technical products as we can. Naturally there are going to be months where we won't be able to please everyone, but with packages like *OctaMED, VideoTracker, SCALA HVT* and *Dir Works* under our belts, we're positive we can please most users. We've got some pretty top-flight programs lined up for this winter too. On the subject of *GBRoute*, this update is very valid. After we mounted the first version many users came back to us asking for one that allowed routes to be printed. By the way, if your version of this August's *GBRoute* doesn't print, the solution is to 'boot' from your Workbench disk, then load up *GBRoute* and try printing. Simple really.

LABEL PERSON

Please, please put the picture of the coverdisks back on the front of your great magazine. I find the worst part of building up a collection of disks is making a label for the first copy and then any working disks after that.

I buy three magazines a month and receive seven disks and as you can imagine my collection is growing very fast – I have 167 masters at the moment, most of which are coverdisks.

Now to the reason for this letter. If you think this is not right to use the cover picture in this way, please do not publish this letter.

What I do is:

1. Make a back-up copy of the coverdisks as instructed then put them away safely in my master disk box.
2. Cut out the pictures of the coverdisk labels on the front cover allowing about 1/8" all around the label.
3. Cover the back of the labels with 3/4" wide double sided sellotape then trim them down to size, peel off the backing tape and stick it to the disk.
4. I always mark the back of the disk "first copy of master" with a black felt marker and "Archived" if it is an archived copy.

This saves me making labels and they look great in my disk drawer. I hope I have not upset anyone with my little tip, but I cannot be the only one to have thought of it (I've been doing it about six months).Thank you for a good read every month. Please keep it up.

David Stewart, Poole.

The coverdisk illustrations were removed from the front of the issue because CU AMIGA's designers didn't like people like you cutting up all their hard work. But you'll be glad to know that they are back on this month's cover. I must say, this has to be the most interesting use of the cover we've come across recently,

TEAM TALK

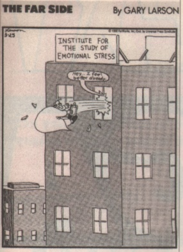
As those chilly winter nights start to draw in, the CU AMIGA team wave a teary bye-bye to the lazy hazy days of summer and wonder what they are going to do with themselves in the run up to Christmas.

ALAN DYKES

Deprived of his beloved summer evening surfing sessions, Alan has devised a top new indoor version of his favourite watery pastime. All you need is a large bath and an ironing board. Place the ironing board in the bath, run the taps, chuck in a bit of sudso, and hey presto: instant surf in the comfort and warmth of your own home!

LISA COLLINS

With the summer scooter rallies all over and done with, Lisa's Vespa fetish still needs satisfying somehow, so she's started up her own division of the Hell's Angels – on scooters. "It's great!" she enthuses, "you get to ride around in a big Parka, scaring all the old people, and then go back to someone's house and listen to Blur tapes. Brilliant!".


THE FAR SIDE
By GARY LARSON
INSTITUTE FOR THE STUDY OF EMOTIONAL STRESS
Hey... I feel better already.

and naturally we're happy to show your instructions to everyone. Does anyone else use their copy of CU AMIGA in an 'unusual' way? Please write and let us know all about it!

WHERE ARE THE GAMES?

I find that through the months your magazine has been getting worse because of the lack of games reviews. I dislike the 'Get Serious' section, but unfortunately that's most of the magazine. Also, the disks are good apart from the adventure demos, which are so small you finish them in 10 minutes, not like the *Settlers* demo which I still play because it doesn't have a real ending. Maybe you should ditch the utility disk and replace it with PD games or utilities. I think a lot of readers would agree. The game reviews are really great and I agree with most of the ratings you give them, but the hints and tips are far too small.

Marcel Dekok, No Address Supplied.

Marcel, I can tell you this much: CU AMIGA reviews every major game release available each month (by major, we mean published games, rather than mail order ones from Aberdeen Angus' Bedroom Inc.). Remember, we are an Amiga specific magazine rather than a games specific mag, and therefore have to reflect everything that the Amiga is used for.

A BIT OF DEFENCE

I am writing to you to air my views regarding the "useless coverdisk" and "price of the mag" letters you receive – in particular to contest Rob Stone's letter in your August issue. I realise that this is my opinion and not the views of other readers.

I feel the price of your mag is very reasonable considering the vast amount of information and tutorials, reviews and competitions it contains. As for coverdisks, I feel that the demos are usually good and serve to give a potential customer the chance to "try before they buy".

The humble town in which I reside has very little if any real retailers who have a real working knowledge of Amigas and Amiga related software. I speak from a position of experience since I used to work for a large electrical retailers. The general views are "Buy the game or get lost". So your coverdisks are great for real hands on experience. Although I must point out that sometimes the PD games and demos are also released on some of the more inferior mags, but then again the old saying goes "You can please some of the people some of the time but ..."

Thank you for your time.

Daryl Booth, Ramsgate.

Aha! Someone gets the point!

BACK OFF BUDDY

I have an old A500 and am still finding the odd game with a bad sector here and there. One way to save the disks being damaged is to make a back-up using *X-Copy*. This means you can use the back-up and if any problems occur you can simply make another back-up from the originals.

The thing is, there are very few games which allow you to do this. Out of my collection only *Lotus 3* actually worked from the back-up, and you obviously still had to use the manual protection. This sort of thing would be great and you'd only use the originals a few times. Software companies should think more in this area, even if it means more manual protection.

Also, why don't the softies make more games HD installable. Although, this would mean no pirate resistant boot blocks and maybe a manual protection it would still be a good thing. They have been making more A1200 software HD installable why can't they do it with A500 games as well.

Or, if they don't like that the idea they should put more games out on CD which are non AGA. All the big adventures like *Indy* can be put on a single CD with more animations and music etc. This would mean all Amigas could access the games, even an old A500. I have seen auto detect AGA games which look at the chipset and change to AGA mode. This would be ideal for CD games and would maybe help more people decide to buy a CD ROM drive in the future.

Finally, why can't hardware companies produce a PCMCIA 'big box' upgrade like the Bodega Bay for the A500. This would enable A1200 owners to use Zorro cards without buying another machine. I have a Bodega for my A500 and I'm very happy with it.

Daniel Waddington, Clayton-le-Moors.

The reason most game disks won't copy is because they are made that way. You aren't actually supposed to copy the disks, not even for personal use unless the author grants you that right (you will find this licence in the front of the manual. If you can't see it, you're not allowed to copy it).

As for HD installable games, the same argument stands. When the pirates stop copying and selling every game they can, then the software industry will be able to trust the Amiga market. Thousands of pounds worth of trade is lost every year, and no software house is going to put out a game that can be duped by the casual observer.

As for manual protection, a photocopy isn't a hard thing to do! Sensible thoughts on CD games, though. What about it Lucasarts?

LETTER OF THE MONTH

A VERY NICE MAN

I know you are usually pleased to get reports of good service so how about this? I am the satisfied owner of both the Gravis Switchstick and the control pad. Recently during a rather frantic game of *Sensible Soccer* I managed to break the pad. On investigation I discovered that I had sheared the two locating pins on the direction button by using excessive force allowing the button to rotate off the contacts.

I wrote to Gravis in Canada thanking them for their products and explained the problem by way of constructive criticism and not asking for anything. Two weeks later I received from Canada a very nice letter and two new direction buttons plus two sets of contacts for under the direction button and two sets of contacts for under the fire buttons. I've had to wait longer for PD disks ordered and paid for in this country!

I know that the parts probably cost them next to nothing but for myself I consider it excellent after sales service which many other companies would do well to emulate.

Ian Mcleod, West Yorkshire

It's nice to see the personal touch in this day and age, and there's a prize of a large bucket of kudos to anyone who can beat this heartwarming story.

TONY DILLON

Now that Tony's grown out of the phase in which he would only speak in quotes from TV comedy programs, he's swotting up on 70s British TV cop shows. Over the next few months his vocabulary will be entirely made up of the words 'Guv', 'Shooter', 'Oi!', and the phrases 'You're nicked mate!' and 'You'll never take me alive, copper!'

TONY HORGAN

Would somebody please tell Tony that the summer is over. Finished. Gone. You see, he can't understand why nobody wants to come to his all-night techno barbecues anymore. "What do you mean, it's cold? Put on another bobble hat and try some of that garlic dip," he shouted over a disturbing techno jungle beat.

JOHN KENNEDY

"Cold? You want cold? You should have been round my house the day I accidentally left the freezer door open," said our John. "Once I'd finally got through the front door with an ice pick, I had to de-frost the whole house – it took a week. Sadly our poor old goldfish was never quite the same after that."

ANDY LEANING

"Underfloor heating" is the response we got when Andy was asked how he'd spend the long nights. He later expanded with the comment: "Warm feet means warm shoes." Always a bit of a philosopher, he's lost us on this one. Why can't he have radiators or good old fashioned gas fires like everyone else?

CU AMIGA NEXT

AMIGA INTERNATIONAL?

CAN THIS MAN SECURE THE FUTURE?

We profile David Pleasance and the team that will make or break the Amiga.

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AND: **Gunfight at the 3D corral! Lightwave Vs Real 3D Vs Imagine. Which one is destined to render the rest into oblivion?**

CU AMIGA DECEMBER '94. NO HYPE NEEDED. PROBABLY.

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WRITE TO REPLY

André Digard's article on violence in computer games caused quite a stir. In an open forum Robert Whelan BSc (Hons) gives his point of view.

In reply to the article 'Let's get violent' by André Digard, (October Points of View) I would like to question his psychological analysis of the effects which video game violence has on children. As a student of the social sciences, and having written my dissertation on the effects of video games, I have to query the significance which is placed on the effects of video games and the subject of 'therapeutic psychology' when determining its importance to violent behaviour and significant influences in life experiences.

VIOLENCE IS A PROBLEM

It would appear from the article that the conclusions reached by the writer are not supported by existing research on the subject. A study by Steuer, Applefield and Smith (1971) demonstrated that children shown violent cartoons were more aggressive than those shown non-violent cartoons. Studies by Singer and Singer (1981) indicate that there is a correlation between exposure to television violence, and the use of violence to solve interpersonal conflict.

These studies are just a few examples of how children are effected by 'dissociated' violence on the television. However, as Wenick (1993) affirms, there is no clear evidence that children become more aggressive from the influence of video games. But some people assume that video games have a similar effect to television violence, because they are familiar with research conducted on children and television violence. Wenick even suggests that the violence on "television is far more graphic".

However, because of the nature of research, for every study that suggests violence on television is bad, another study will produce evidence which suggests otherwise. Violence in our society is a problem, however no single aspect from our culture can be highlighted as the cause for violent behaviour, as it would appear to be a culmination of many different factors, for example the availability of weapons, poverty, drug use etc.

CONTRADICTIONS

The notion of associated and dissociated violence, sound distinctly like a contradiction of terms, on the one hand André suggests that 'Tom And Jerry' cartoons are OK, because they are what he terms 'dissociated violence', with unrealistic characters, unreal situations which have no link to the real world, while a game like *Mortal Kombat* is not unreal. I would argue as Condry (1983) does; and point out that in many cases violent video game plots do not involve aggression towards humans, but typically against alien robots, malevolent spaceships, techno-monsters etc. The same principle applies to games like *Mortal Kombat*. When was the last time you saw someone like Shao Khan in the local pub? Or was able to vapourise someone with a kiss?

VALID EXPERIENCE?

The author suggests that: "When a child gets words, pictures and sound all together, that's called experience." This is not the case. These factors contribute to only a portion of an individual's experience. Words, pictures and sounds are only represented as stimulus to the brain through the central nervous system. However, the child's mother will usually be the significant and influential experience in a young person's life, and as that individual explores the world, he or she uses what they have learnt from their mother, and other significant people ie his or hers friends and other family members. It is from this experience that a child learns about the rules which govern an individuals behaviour in society.

André has ignored the importance of these factors when analysing the development of a child's personality through experiences. Can he honestly believe that a parent, teacher or friend who has more contact with a child than a computer game, has less influence than a game to shape that child's morals and personality?

I would also like to question the notion that video games: "will change your attitudes over the years rather than the moment you put your joystick down". Where's the evidence? There has been no longitudinal studies (studies over a period of time) on the effects of video games. In fact very little research has been conducted on the subject, and the majority originated in America which has a much more violent culture. It sounds suspiciously like André is basing his assumptions on research generated from study into television violence, which is a dangerous mistake to make as they are not comparable mediums; one being interactive the other not.

Master Axe – Is this level of violence a acceptable or is it OTT?

TAKE OUT THE GORE?

"What needs stopping, though, is gore. When we get rid of it we can rest easy." This is a very naive statement to make, how can anyone think that the removal of gore from video games will really make a difference to the levels of violence in the world. We only have to switch on the television to see images of gore, for example the situation in Rwanda or the OJ Simpson murder case. Taking André's argument to its furthest conclusion we must also remove half the images from the news, or censor films like Dances With Wolves because of their violent and gory content. Although I personally deplore 'gore' and extreme violence I would not censor images without evidence to support my case. As adults with our own free will we should be allowed to decide whether we wish to play *Doom* or *Mortal Kombat 2*. In the case of children, parents have a responsibility to ensure that video games are suitable for their child, instead of using video games and the television as a 'one-eyed baby sitter'. This will ensure that censorship does not encroach on another aspect of our civil liberty, as this country is already one of the most censored countries is Europe.

The factor which concerned me the most is the fact that although André's opinions would on face value appear to be valid, they tend to be ill constructed arguments without any evidence to back up his statements. I would like to be proven wrong. However, I suspect that the article is 'psycho-babble', unsupported by any objective research and not helpful to those of us concerned with the real cause and effect of violence related to this particular form of entertainment. CU

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